

=> fil reg; d ide

FILE 'REGISTRY' ENTERED AT 12:41:35 ON 07 MAY 2002

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0

DICTIONARY FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 9025-62-1 REGISTRY

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3.beta.-Hydroxysteroid sulfate sulfatase

CN Arylsulfatase C

CN Cholesterol sulfate sulfatase

CN Cholesterol sulfate sulfohydrolase

CN Dehydroepiandrosterone sulfatase

CN Dehydroepiandrosterone sulfate sulfatase

CN E.C. 3.1.6.2

CN Estrone sulfate sulfohydrolase

CN Neurosteroid sulfatase

CN Oestrone sulphatase

CN Phenolic steroid sulfatase

CN Pregnenolone sulfatase

CN Steroid 3-sulfatase

CN **Steroid sulfatase**

CN Steroid sulfatase (EC 3.1.6.2)

CN Steroid sulfate sulfohydrolase

CN Sterol sulfatase

CN Sterylsulfatase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, EMBASE, PROMT, TOXCENTER, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

421 REFERENCES IN FILE CA (1967 TO DATE)

422 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> fil reg; d stat que 13; fil capl; d que nos 124; d que nos 136; d que nos 137; s 124 or 137

FILE 'REGISTRY' ENTERED AT 13:27:58 ON 07 MAY 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0

DICTIONARY FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

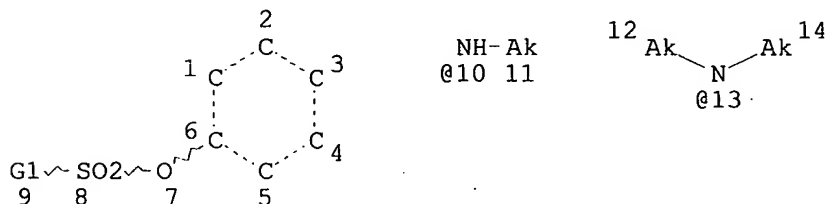
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L1

STR



VAR G1=NH2/10/13

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 11

CONNECT IS E1 RC AT 12

CONNECT IS E1 RC AT 14

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L3 1336 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 3667 ITERATIONS

1336 ANSWERS

SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 13:27:59 ON 07 MAY 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 7 May 2002 VOL 136 ISS 19
FILE LAST UPDATED: 6 May 2002 (20020506/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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L1          STR
L3          1336 SEA FILE=REGISTRY SSS FUL L1
L4          345 SEA FILE=CAPLUS ABB=ON  L3
L8          1 SEA FILE=REGISTRY ABB=ON  "STEROID SULFATASE"/CN
L9          422 SEA FILE=CAPLUS ABB=ON  L8
L10         540 SEA FILE=CAPLUS ABB=ON  STEROID(1W) (SULFATASE OR SULPHATASE)
           OR (SULFATE OR SULPHATE) (W) SULFOHYDROLASE
L11         85 SEA FILE=CAPLUS ABB=ON  ( OESTERONE OR PREGNENOLONE OR STEROL
           OR STERYL OR DEHYDROEPIANDROSTERONE) (1W) (SULFATASE OR SULPHATAS
           E)
L12         99 SEA FILE=CAPLUS ABB=ON  ((L9 OR L10 OR L11)) (L) INHIBIT?/OBI
L14         53141 SEA FILE=CAPLUS ABB=ON ANTITUMOR AGENTS/CT
L15         96316 SEA FILE=CAPLUS ABB=ON NEOPLASM# (L) INHIBIT?/OBI
L16         21996 SEA FILE=CAPLUS ABB=ON ?ALZHEIMER?
L17         28992 SEA FILE=CAPLUS ABB=ON ?FERTILITY?
L18         13765 SEA FILE=CAPLUS ABB=ON ENDOMETRI?
L19         4 SEA FILE=CAPLUS ABB=ON  ADENOMYOSIS UTER?
L20         2264 SEA FILE=CAPLUS ABB=ON UTERUS (L) (DISEASE OR DISORDER) /OBI
L21         18619 SEA FILE=CAPLUS ABB=ON AUTOIMMUNE DISEASE+OLD,NT/CT
L22         4051 SEA FILE=CAPLUS ABB=ON DEMENTIA#/OBI
L23         72 SEA FILE=CAPLUS ABB=ON  L4 AND (L14 OR L15 OR L16 OR L17 OR
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L36         0 SEA FILE=CAPLUS ABB=ON  L4 AND L19
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PKT) /RL
L29 8 SEA FILE=CAPLUS ABB=ON L25 AND L16
L30 3 SEA FILE=CAPLUS ABB=ON L25 AND L17
L31 14 SEA FILE=CAPLUS ABB=ON L25 AND L18
L32 0 SEA FILE=CAPLUS ABB=ON L25 AND L19
L33 7 SEA FILE=CAPLUS ABB=ON L25 AND L20
L34 5 SEA FILE=CAPLUS ABB=ON L25 AND L21
L35 5 SEA FILE=CAPLUS ABB=ON L25 AND L22
L37 25 SEA FILE=CAPLUS ABB=ON (L29 OR L30 OR L31 OR L32 OR L33 OR
L34 OR L35)

*Role BAC - biological activity
PAC - pharmacology
THU - therapeutic use
DMA - drug mechanism of action
PKT - pharmacokinetics*

L54 44 L24 OR L37

=> d ibib abs hitstr l54 1-44

L54 ANSWER 1 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:240732 CAPLUS

DOCUMENT NUMBER: 136:279351

TITLE: Preparation of tetrahydroisoquinolines,
tetrahydrobenzazepines, and isoindolines as selective
modulators of ER-.beta. estrogen receptors for the
treatment of estrogen-related conditions

INVENTOR(S): Bhagwat, Shripad S.; Gayo-Fung, Leah M.; Stein, Bernd
M.; Chao, Qi; Gangloff, Anthony R.; McKie, Jeffrey A.;
Rice, Kenneth D.

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA; Axys
Pharmaceuticals, Inc.

SOURCE: PCT Int. Appl., 195 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

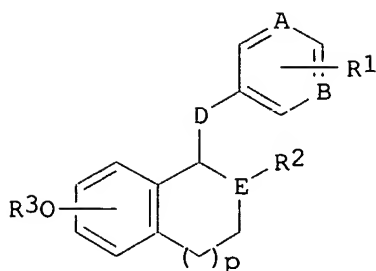
PATENT INFORMATION:

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WO 2002024653	A1	20020328	WO 2001-US29259	20010918
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

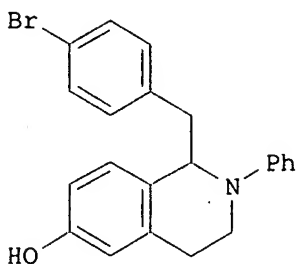
PRIORITY APPLN. INFO.: US 2000-668893 A 20000921

OTHER SOURCE(S): MARPAT 136:279351

GI



I



II

AB Fused heterocycles I [A, B, E = CH, CR, N; R = alkyl; D = (CH₂)_mCO(CH₂)_n; RR1 = atoms to form a fused heterocycle, cycloalkyl; R1 = 1-2 of XY; X = bond, alkylene, oxyalkylene, thioalkylene, aminoalkylene, etc.; Y = H, alkyl, halo, amino, etc.; XY = N-heterocyclyl(alkyl)amino, etc.; R2 = alkyl, aryl, aralkyl, alkylcarbonyl, 5- or 6-membered heterocycle, benzo-fused heterocycle; R2 = (substituted) alkyl, aryl, aralkyl, (benzo-fused) heterocyclyl; R3 = H, alkyl, alkoxycarbonylalkyl, alkylcarbonylamino, alkylaminocarbonylalkyl, etc.; m, n = 0-3; p = 0-2] were prepd. for the treatment of estrogen-related conditions such as breast cancer, prostatic hypertrophy, and menopausal syndromes. Title compd. II was prepd. by acylation of PhNH₂ with 3-MeOC₆H₄CH₂COC₂H₅, redn. of the amide with LiAlH₄, acylation of the amine with 4-BrC₆H₄CH₂COC₂H₅, ring closure with POCl₃/KI, redn. of the intermediate isoquinolinium salt with NaBH₄, and demethylation with BBr₃. Example compd. II inhibits ER-.alpha. with an IC₅₀ of >1000 .mu.M, while inhibiting ER-.beta. with an IC₅₀ of 107 .mu.M. Biol. data of three other example compds. is given. A combinatorial library of 74 1-[3-[2-(aminoethoxy)]benzyl]-2-(4-fluorophenyl)-6-hydroxy-1,2,3,4-isoquinolines was prepd.

IT 295317-83-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP

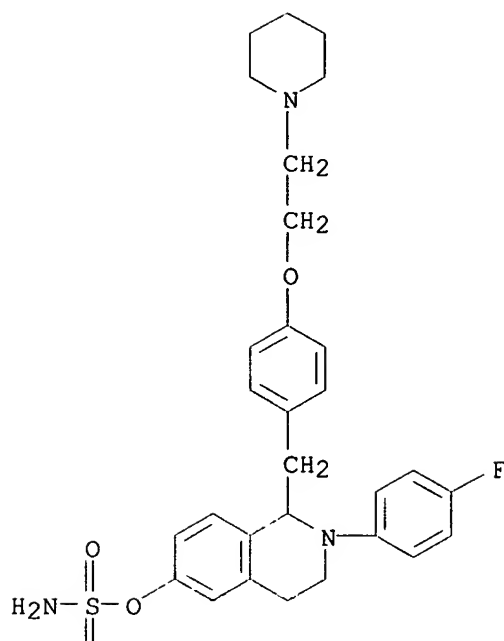
(Preparation); USES (Uses)

(prepn. of tetrahydroisoquinolines, tetrahydrobenzazepines, and isoindolines as selective modulators of ER-.beta. in the treatment of estrogen-related conditions such as breast cancer and prostatic hypertrophy)

RN 295317-83-8 CAPLUS

CN Sulfamic acid, 2-(4-fluorophenyl)-1,2,3,4-tetrahydro-1-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-6-isoquinolinyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

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O

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:157801 CAPLUS

DOCUMENT NUMBER: 136:216935

TITLE: Preparation of thioether-sulfamate steroids as
steroid sulfatase inhibitors
and anti-cancer compounds

INVENTOR(S): Potter, Barry Victor Lloyd; Reed, Michael John

PATENT ASSIGNEE(S): Sterix Limited, UK

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016394	A1	20020228	WO 2001-GB3705	20010817
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

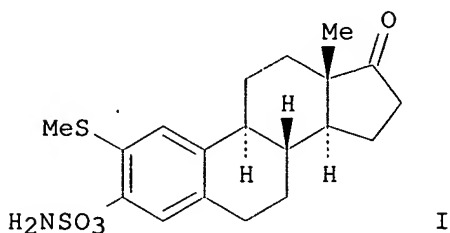
Searched by Barb O'Bryen, STIC 308-4291

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2000-20498 A 20000818

OTHER SOURCE(S): MARPAT 136:216935

GI



AB The title compds. R1X(R2)(R3)K (X is a ring having at least 4 atoms; K is a hydrocarbonyl group; R1 is an optional group of the formula -L1-S-R1', L1 is an optional linker group and R1' is a hydrocarbonyl group; R2 is an optional group of the formula -L2-S-R2', L2 is an optional linker group and R2' is a hydrocarbonyl group; R3 is any one of a sulfamate group, a phosphonate group, a thiophosphonate group, a sulfonate group or a sulfonamide group; at least one of R1 and R2 is present), were prepd. for inhibition of steroid sulfatase (STS) and/or is capable of acting as a modulator of cell cycling and/or as a modulator of apoptosis and/or as a modulator of cell growth. Thus, estrone was converted to thesulfamoylestratriene I in five steps via the protected methoxymethyl ethylenedioxy deriv. The STS inhibition was detd in accordance with the placental microsomes assay and a plate assay, e.g. at 1 .mu.M I inhibited placental microsomes by 86.9 %.

IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(prepn. of thioether-sulfamate steroids as **steroid**

sulfatase inhibitors and anti-cancer compds.)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 401600-80-4P 401600-82-6P 401600-83-7P

401600-84-8P 401600-85-9P 401893-30-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

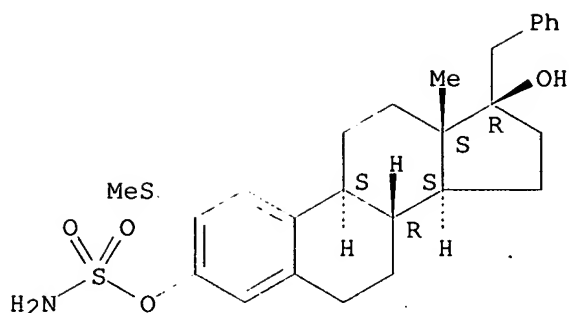
(prepn. of thioether-sulfamate steroids as **steroid**

sulfatase inhibitors and anti-cancer compds.)

RN 401600-80-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-(methylthio)-17-(phenylmethyl)-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

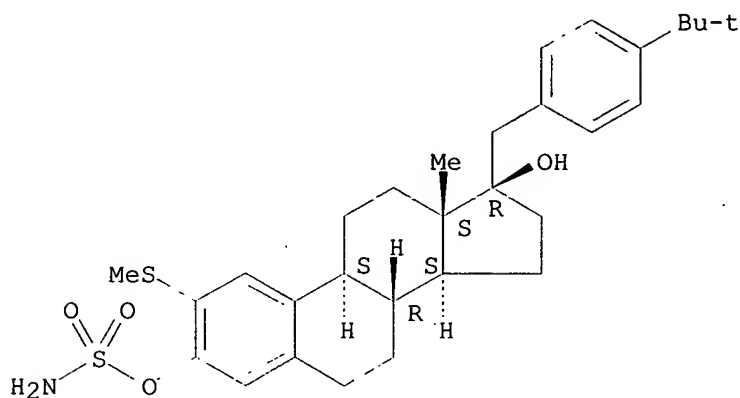
Absolute stereochemistry.



RN 401600-82-6 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1,1-dimethylethyl)phenyl]methyl]-2-(methylthio)-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

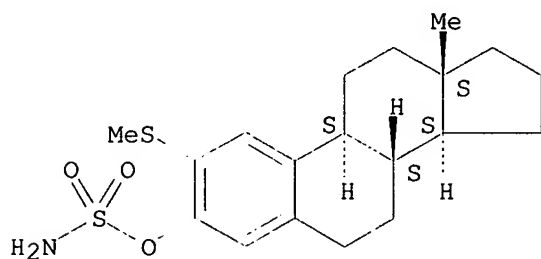
Absolute stereochemistry.



RN 401600-83-7 CAPLUS

CN Estra-1,3,5(10)-triene-3-ol, 2-(methylthio)-, sulfamate (9CI) (CA INDEX NAME)

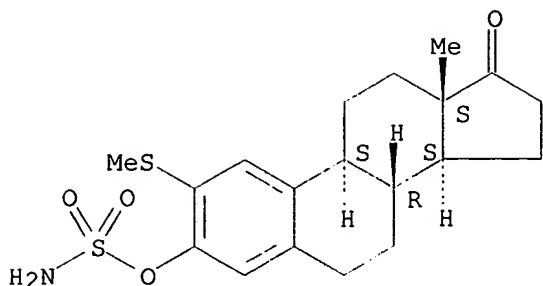
Absolute stereochemistry.



RN 401600-84-8 CAPLUS

CN Estra-1,3,5(10)-triene-17-one, 3-[(aminosulfonyl)oxy]-2-(methylthio)- (9CI) (CA INDEX NAME)

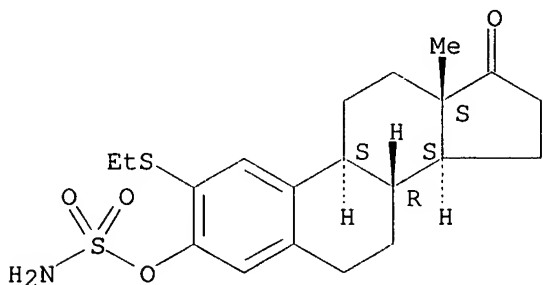
Absolute stereochemistry.



RN 401600-85-9 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-(ethylthio)- (9CI)
(CA INDEX NAME)

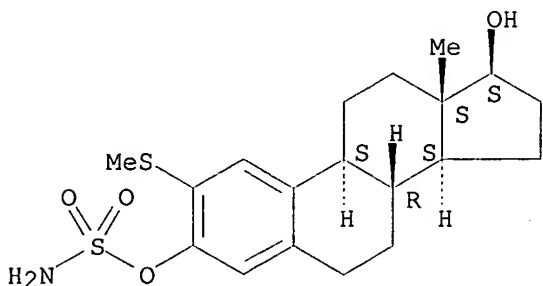
Absolute stereochemistry.



RN 401893-30-9 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-(methylthio)-, 3-sulfamate,
(17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 3 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:157800 CAPLUS

DOCUMENT NUMBER: 136:200349

TITLE: Preparation of estrogen 3-sulfamate derivatives for
pharmaceutical use as **steroid**
sulfatase inhibitors

INVENTOR(S): Potter, Barry Victor Lloyd; Reed, Michael John

PATENT ASSIGNEE(S): Sterix Limited, UK

SOURCE: PCT Int. Appl., 80 pp.

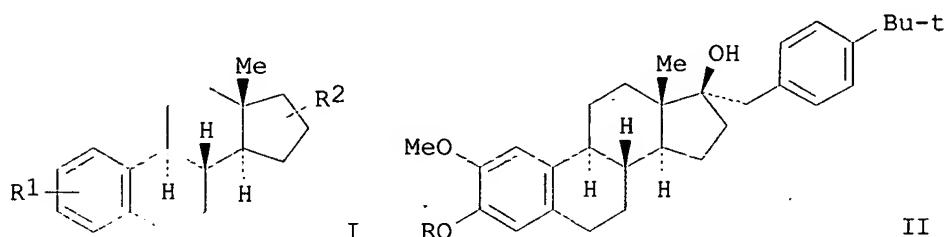
CODEN: PIXXD2

DOCUMENT TYPE: Patent

Searched by Barb O'Bryen, STIC 308-4291

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016393	A1	20020228	WO 2001-GB3692	20010817
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			GB 2000-20498	A 20000818
OTHER SOURCE(S):			MARPAT 136:200349	
GI				



AB Estrogen 3-sulfamate derivs., such as I [R1 = sulfamate, a phosphonate, thiophosphonate, sulfonate, sulfonamide; R2 = L-R3; L = an optional linker group; R3 = arom. hydrocarbaryl group], were prepd. for use as steroid sulfatase inhibitors for the treatment of diseases, such as breast cancer. Thus, 2-methoxyestrone was reacted with 4-tert-butybenzylmagnesium bromide to give II (R = H) which on reaction with sulfamoyl chloride afford sulfamate II (R = SO₂NH₂). The prepd. sulfamates were tested for inhibiting activity against steroid sulfatase enzyme in MCF-7 cells and placental microsomes.

IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prepn. of estrogen 3-sulfamate derivs. for pharmaceutical use as steroid sulfatase inhibitors)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 401600-80-4P

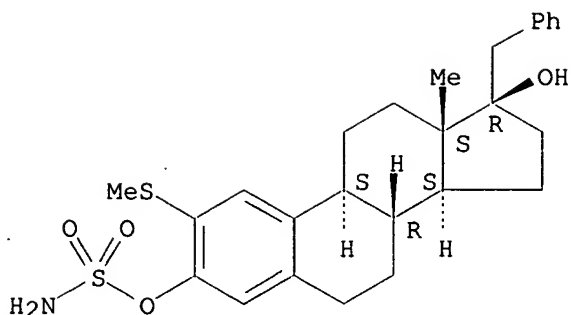
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of estrogen 3-sulfamate derivs. for pharmaceutical use as steroid sulfatase inhibitors)

RN 401600-80-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-(methylthio)-17-(phenylmethyl)-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 172377-52-5P, BLE 00084 213472-36-7P, BLE 99031B

401600-82-6P 401600-83-7P 401600-84-8P

401600-85-9P 401600-86-0P 401600-87-1P

401818-59-5P, BLE 99065 401818-60-8P, BLE 00069

401818-61-9P, BLE 99074 401818-62-0P, BLE 00083B

401818-63-1P, BLE 99063 401818-64-2P, BLE 99068

401818-65-3P, BLE 01018 401818-66-4P, BLE 01016

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

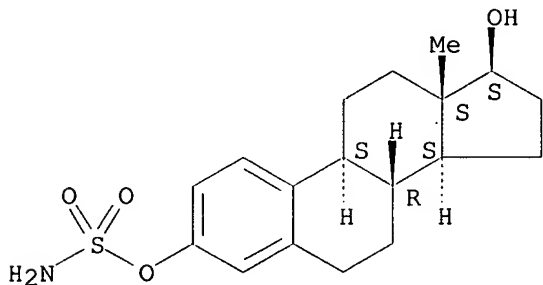
study); PREP (Preparation); USES (Uses)

(prepn. of estrogen 3-sulfamate derivs. for pharmaceutical use as
steroid sulfatase inhibitors)

RN 172377-52-5 CAPLUS

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NAME)

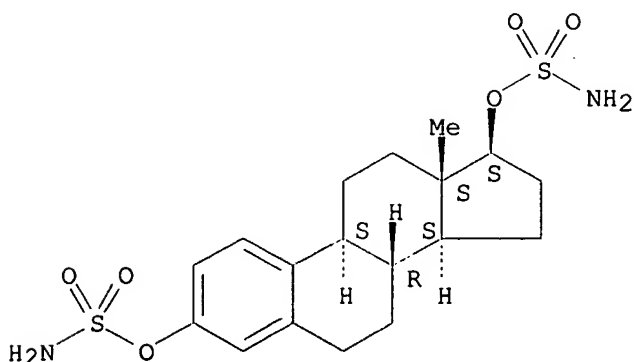
Absolute stereochemistry. Rotation (+).



RN 213472-36-7 CAPLUS

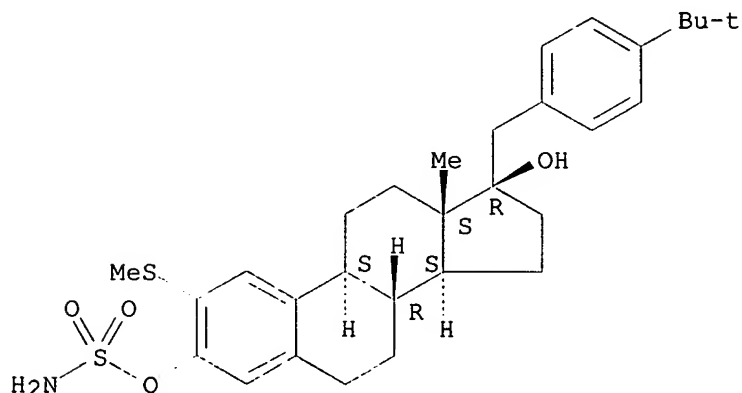
CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, disulfamate (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



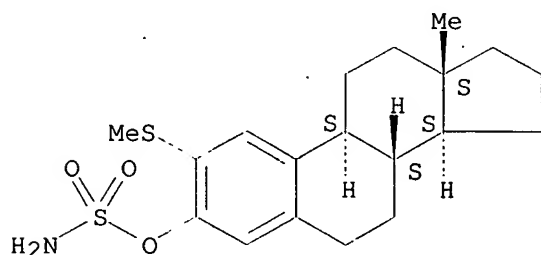
RN 401600-82-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1,1-dimethylethyl)phenyl]methyl]-
2-(methylthio)-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



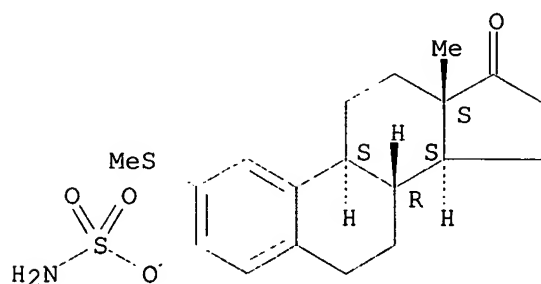
RN 401600-83-7 CAPLUS
CN Estra-1,3,5(10)-trien-3-ol, 2-(methylthio)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



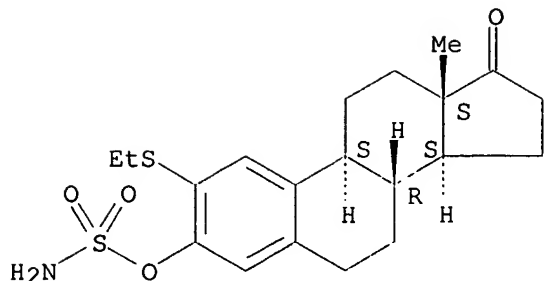
RN 401600-84-8 CAPLUS
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-(methylthio)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 401600-85-9 CAPLUS
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-(ethylthio)- (9CI)
(CA INDEX NAME)

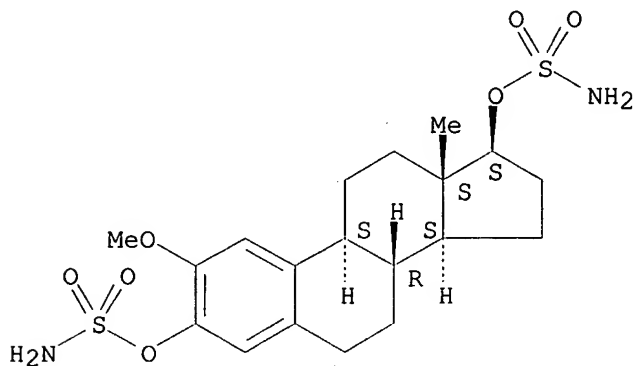
Absolute stereochemistry.



RN 401600-86-0 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-methoxy-, disulfamate, (17.beta.)-
(9CI) (CA INDEX NAME)

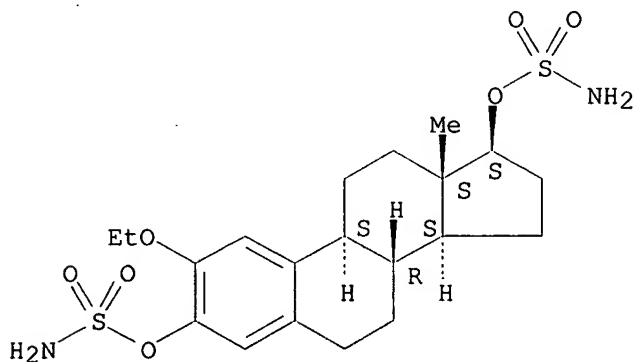
Absolute stereochemistry.



RN 401600-87-1 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-ethoxy-, disulfamate, (17.beta.)-
(9CI) (CA INDEX NAME)

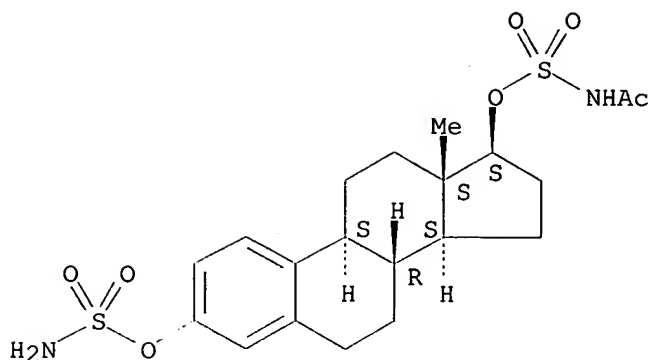
Absolute stereochemistry.



RN 401818-59-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-(acetylsulfamate)
3-sulfamate (9CI) (CA INDEX NAME)

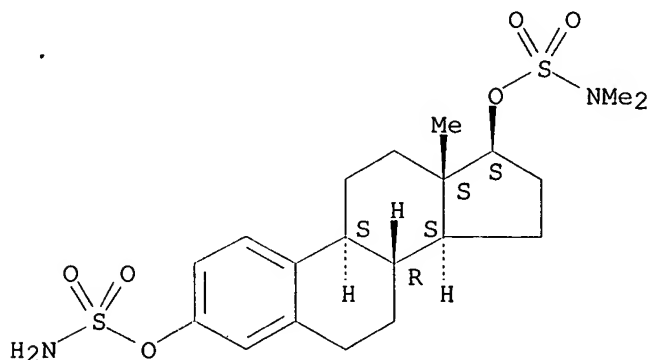
Absolute stereochemistry.



RN 401818-60-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-(dimethylsulfamate)
3-sulfamate (9CI) (CA INDEX NAME)

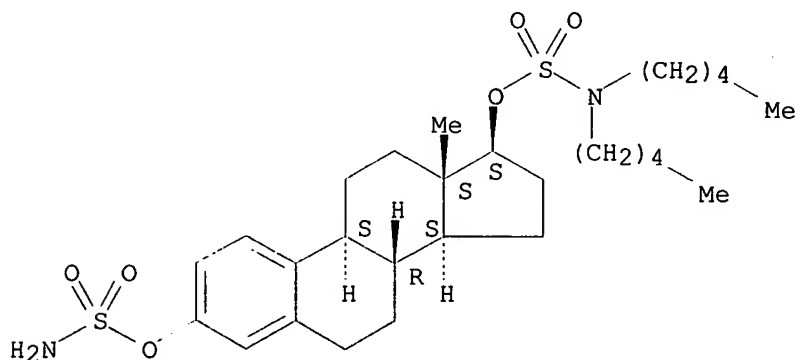
Absolute stereochemistry.



RN 401818-61-9 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-(dipentylsulfamate)
3-sulfamate (9CI) (CA INDEX NAME)

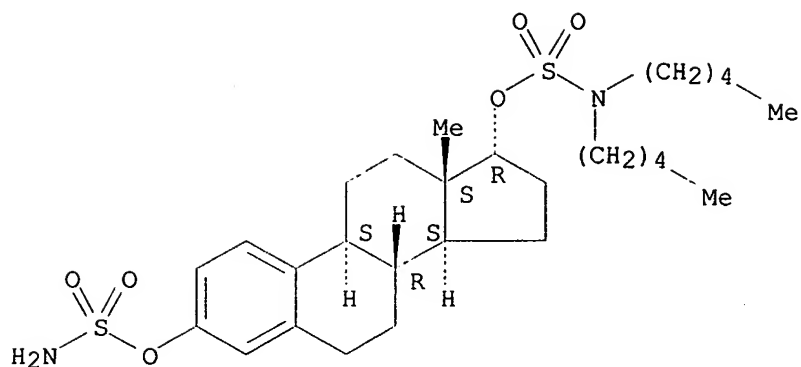
Absolute stereochemistry.



RN 401818-62-0 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-(dipentylsulfamate) 3-sulfamate,
(17.alpha.)- (9CI) (CA INDEX NAME)

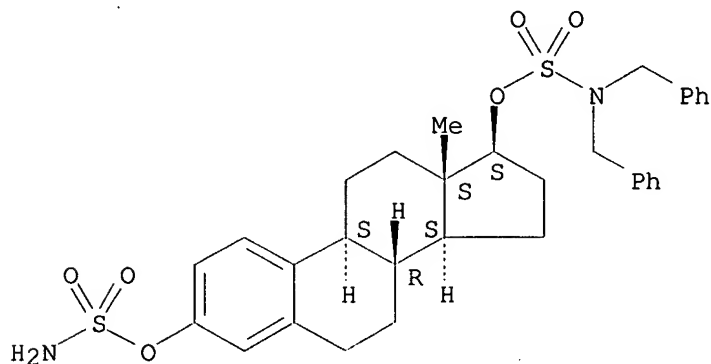
Absolute stereochemistry.



RN 401818-63-1 CAPLUS

CN Estradiol-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-[bis(phenylmethyl)sulfamate] 3-sulfamate (9CI) (CA INDEX NAME)

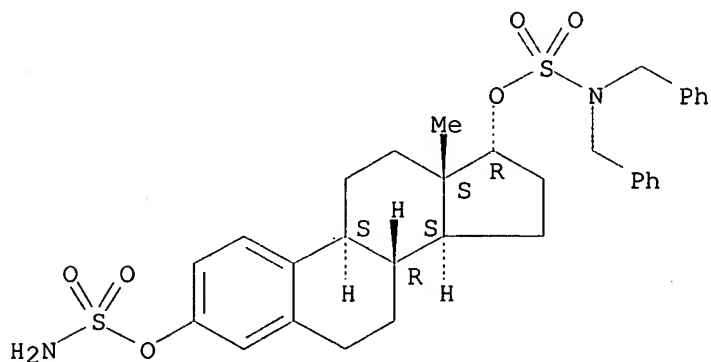
Absolute stereochemistry.



RN 401818-64-2 CAPLUS

CN Estradiol-1,3,5(10)-triene-3,17-diol, 17-[bis(phenylmethyl)sulfamate] 3-sulfamate, (17.alpha.)- (9CI) (CA INDEX NAME)

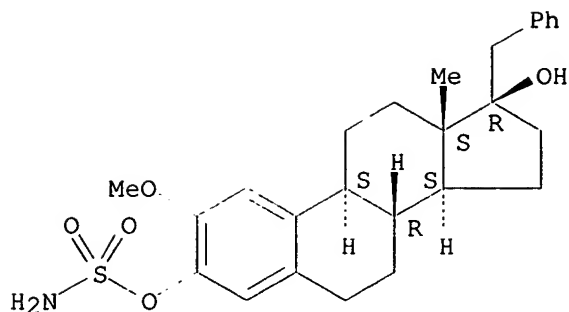
Absolute stereochemistry.



RN 401818-65-3 CAPLUS

CN Estradiol-1,3,5(10)-triene-3,17-diol, 2-methoxy-17-(phenylmethyl)-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

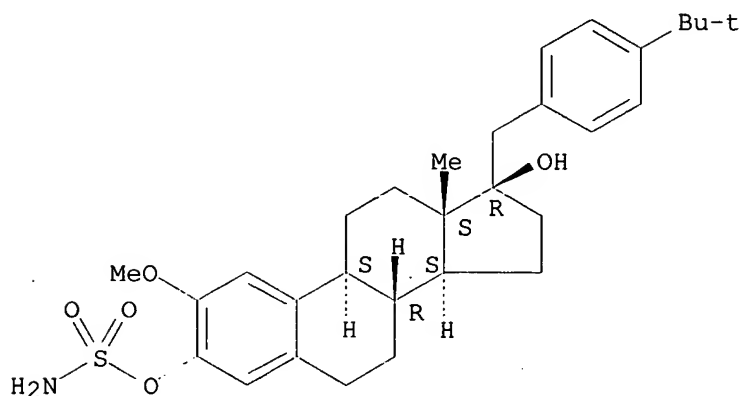
Absolute stereochemistry.



RN 401818-66-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1,1-dimethylethyl)phenyl]methyl]-2-methoxy-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



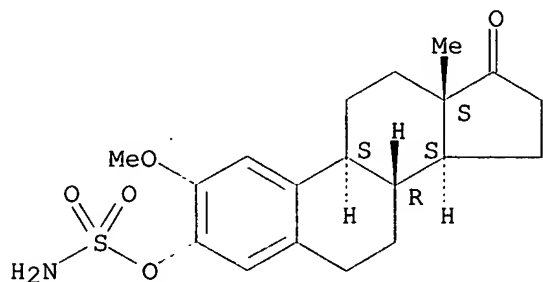
IT 185910-34-3 304681-51-4, 2-Ethyl estrone-3-O-sulfamate

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prepn. of estrogen 3-sulfamate derivs. for pharmaceutical use as **steroid sulfatase inhibitors**)

RN 185910-34-3 CAPLUS

CN Estra-1,3,5(10)-triene-17-one, 3-[(aminosulfonyl)oxy]-2-methoxy- (9CI) (CA INDEX NAME)

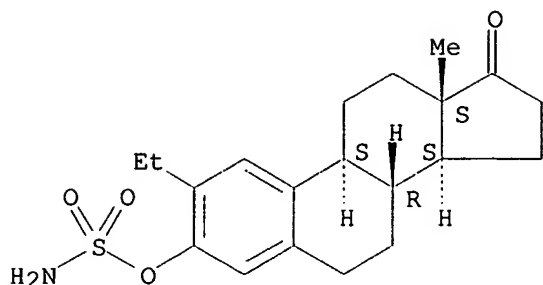
Absolute stereochemistry. Rotation (+).



RN 304681-51-4 CAPLUS

CN Estra-1,3,5(10)-triene-17-one, 3-[(aminosulfonyl)oxy]-2-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

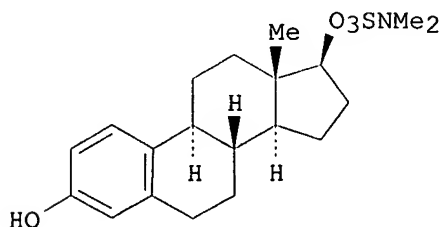


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 4 OF 44 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:157799 CAPLUS
 DOCUMENT NUMBER: 136:216934
 TITLE: Preparation of oestrogen-17-sulfamates as inhibitors of steroid sulfatase
 INVENTOR(S): Potter, Barry Victor Lloyd; Reed, Michael John
 PATENT ASSIGNEE(S): Sterix Limited, UK
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016392	A1	20020228	WO 2001-GB3688	20010817
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2000-20498 A 20000818
 OTHER SOURCE(S): MARPAT 136:216934
 GI



I

AB The estrogen-17-sulfamates R1-X-R2 (I, X = ring system, R1 = sulfamate, phosphonate, thiophosphonate, sulfonate, or sulfonamide group; R2 = sulfamate, phosphonate, thiophosphonate, sulfonate or sulfonamide group);

when X is a steroidal structure and both of R1 and R2 are sulfamate groups, the steroidal ring system X represents an estrogen the compd. is capable of inhibiting steroid sulfatase (STS) activity and/or is capable of acting as a modulator of cell cycling and/or as a modulator of apoptosis and/or as a modulator of cell growth. When I (R2 = sulfamate, phosphonate, thiophosphonate, a sulfonate, or sulfonamide group) the compd. is capable of inhibiting steroid sulfatase (STS) activity and/or is capable of acting as a modulator of cell cycling and/or as a modulator of apoptosis and/or as a modulator of cell growth. Thus estrone was benzylated followed by redn. reaction with sulfamoyl chloride, methylation and debenzylation to give 3-hydroxyestra-1,2,5(10)-trien-17 β -O-(N,N-dimethyl)sulfamate (II). At 1 μ M II showed 8.7% placental microsome inhibition.

IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(prepn. of estrogen-17-sulfamates as inhibitors of
steroid sulfatase)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

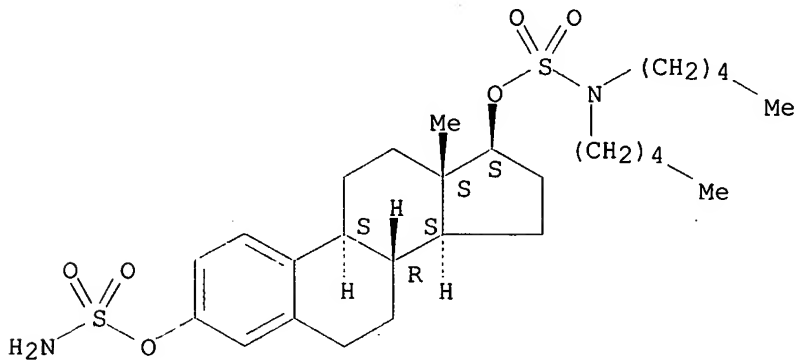
IT 401818-61-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
(prepn. of estrogen-17-sulfamates as inhibitors of
steroid sulfatase)

RN 401818-61-9 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17 β .)-, 17-(dipentylsulfamate)
3-sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 401818-59-5P 401818-60-8P 401818-62-0P,
17.alpha.-Estradiol 3-sulfamate 17-dipentylsulfamate 401818-63-1P
401818-64-2P, BLE 99068

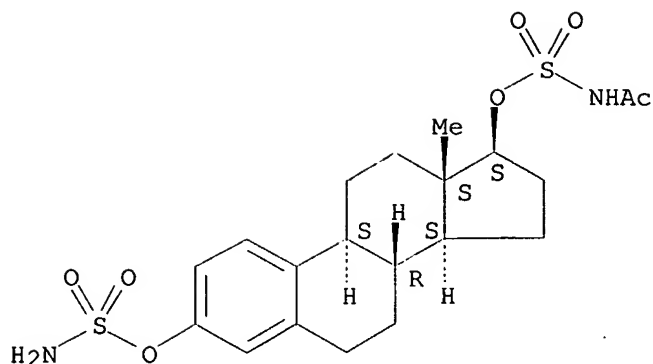
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(prepn. of estrogen-17-sulfamates as inhibitors of
steroid sulfatase)

RN 401818-59-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17 β .)-, 17-(acetylsulfamate)
3-sulfamate (9CI) (CA INDEX NAME)

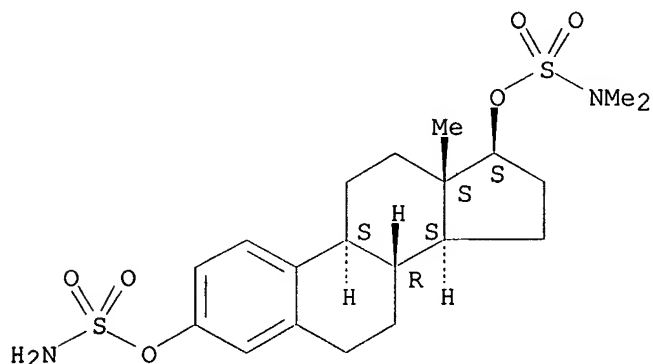
Absolute stereochemistry.



RN 401818-60-8 CAPLUS

CN Estrone-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-(dimethylsulfamate) 3-sulfamate (9CI) (CA INDEX NAME)

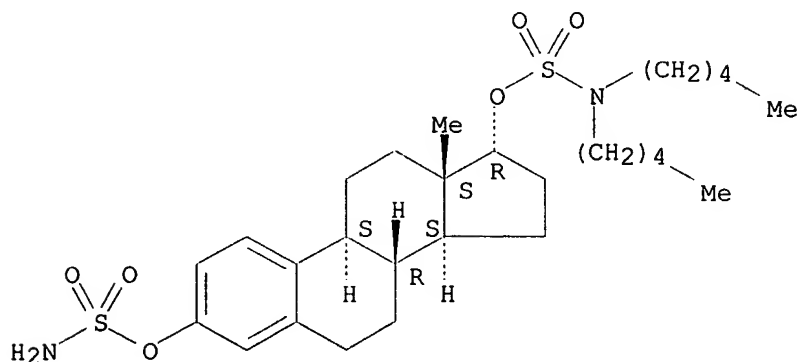
Absolute stereochemistry.



RN 401818-62-0 CAPLUS

CN Estrone-1,3,5(10)-triene-3,17-diol, 17-(dipentylsulfamate) 3-sulfamate, (17.alpha.)- (9CI) (CA INDEX NAME)

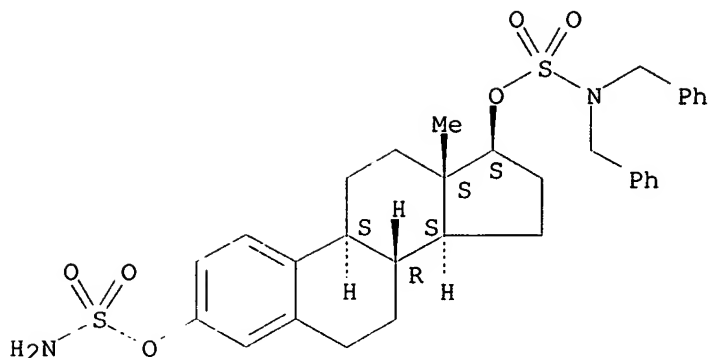
Absolute stereochemistry.



RN 401818-63-1 CAPLUS

CN Estrone-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-[bis(phenylmethyl)sulfamate] 3-sulfamate (9CI) (CA INDEX NAME)

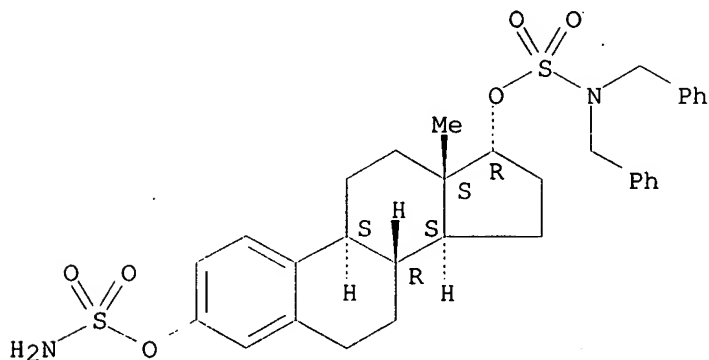
Absolute stereochemistry.



RN 401818-64-2 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[bis(phenylmethyl)sulfamate]
3-sulfamate, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 172377-52-5 213472-36-7 401600-86-0

401600-87-1 401818-65-3 401818-66-4

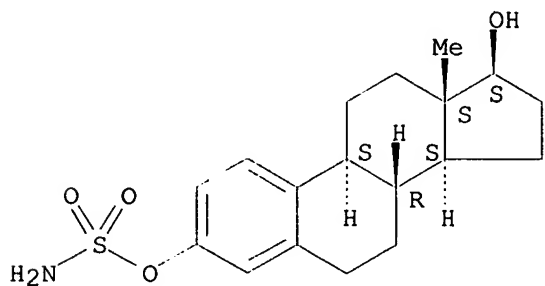
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(prepn. of estrogen-17-sulfamates as **inhibitors of
steroid sulfatase**)

RN 172377-52-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 3-sulfamate (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (+).

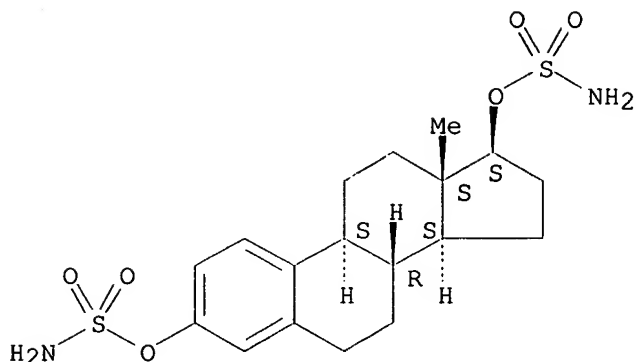


RN 213472-36-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, disulfamate (9CI) (CA INDEX
NAME)

NAME)

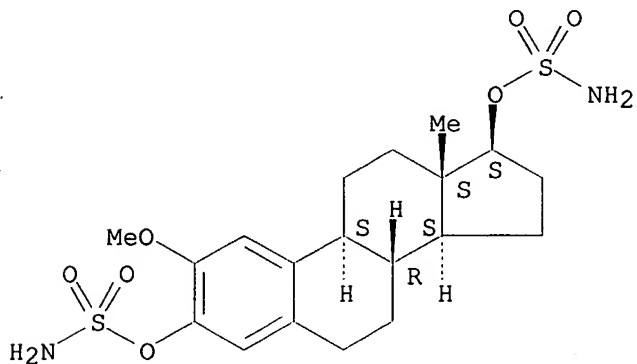
Absolute stereochemistry.



RN 401600-86-0 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-methoxy-, disulfamate, (17.beta.)-
(9CI) (CA INDEX NAME)

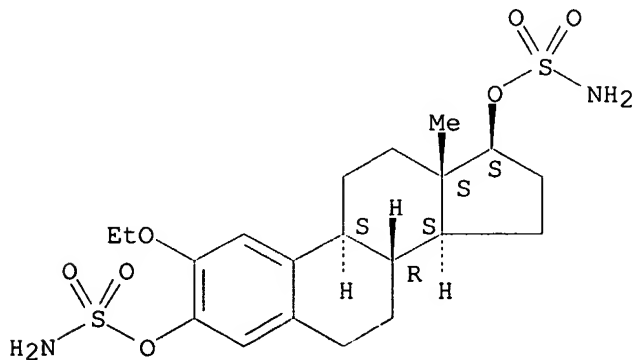
Absolute stereochemistry.



RN 401600-87-1 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-ethoxy-, disulfamate, (17.beta.)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

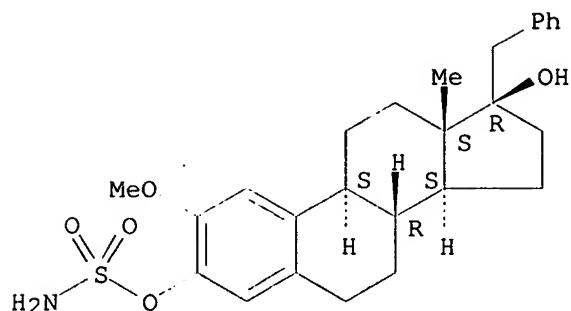


RN 401818-65-3 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 2-methoxy-17-(phenylmethyl)-,
(9CI) (CA INDEX NAME)

3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

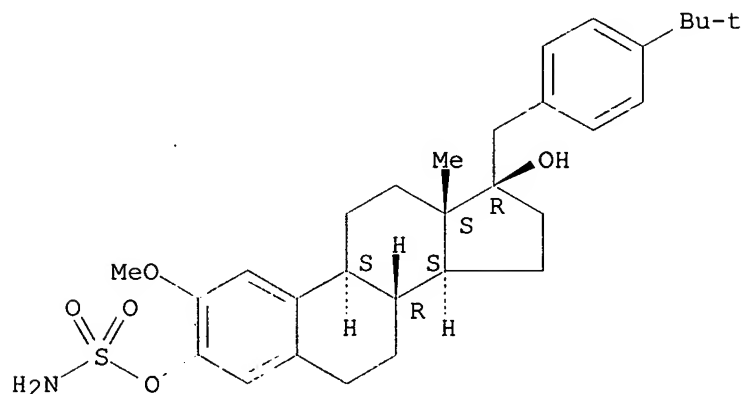
Absolute stereochemistry.



RN 401818-66-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1,1-dimethylethyl)phenyl]methyl]-2-methoxy-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



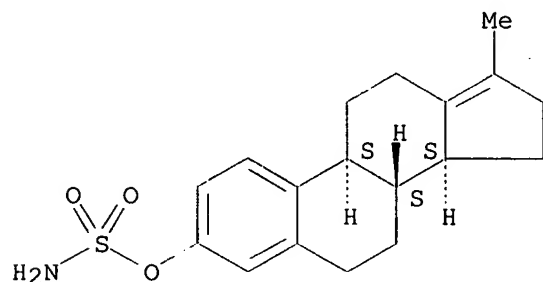
IT 402496-31-5P, BLE 00083A

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of estrogen-17-sulfamates as inhibitors of
steroid sulfatase)

RN 402496-31-5 CAPLUS

CN Gona-1,3,5(10),13(17)-tetraen-3-ol, 17-methyl-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

18

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Searched by Barb O'Bryen, STIC 308-4291

L54 ANSWER 5 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:63493 CAPLUS

DOCUMENT NUMBER: 136:112635

TITLE: Biphenyl sulfamates as **steroid sulfatase inhibitors** for estrogen-dependent diseases

INVENTOR(S): Jinbo, Yoshikazu; Miyasaka, Tomohiro; Inoue, Yoshimasa

PATENT ASSIGNEE(S): Japan Organo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2002020362	A2	20020123	JP 2000-245314	20000706

OTHER SOURCE(S): MARPAT 136:112635

AB 4-RC6H4C6H4OSO2NH2-4 [I; R = CO2H, CONR1R2, CONR1OCH2Ph, COR2, C(OH)R1R2; R1 = H, (un)substituted alkyl; 2 = (un)substituted alkyl] are prepd. I are useful for treatment of mammary cancer, **endometrial** cancer, **endometriosis**, uterine myoma, etc. I (R = COCH2C6H4CMe3-4) (prepn. given) inhibited human placenta-derived steroid sulfatase at IC50 3.6 .mu.M.

IT 9025-62-1, **Steroid sulfatase**
RL: BSU (Biological study, unclassified); BIOL (Biological study) (prepn. of biphenyl sulfamates as **steroid sulfatase inhibitors** for treatment of estrogen-dependent diseases)

RN 9025-62-1 CAPLUS

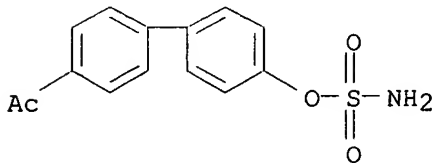
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 390358-08-4P 390358-09-5P
RL: PAC (**Pharmacological activity**); RCT (Reactant); SPN (Synthetic preparation); THU (**Therapeutic use**); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of biphenyl sulfamates as **steroid sulfatase inhibitors** for treatment of estrogen-dependent diseases)

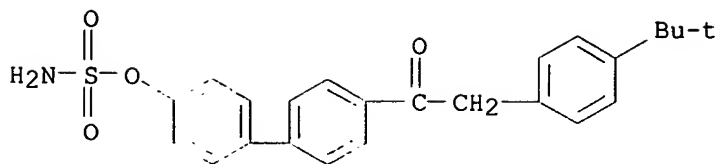
RN 390358-08-4 CAPLUS

CN Sulfamic acid, 4'-acetyl[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 390358-09-5 CAPLUS

CN Sulfamic acid, 4'-[4-(1,1-dimethylethyl)phenyl]acetyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

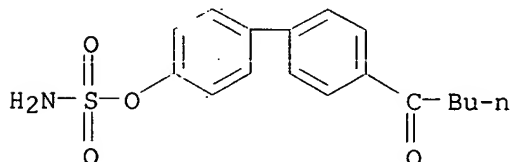


IT 390358-11-9P 390358-12-0P 390358-14-2P
 390358-16-4P 390358-17-5P 390358-19-7P
 390358-21-1P 390358-23-3P 390358-25-5P
 390358-27-7P 390358-29-9P 390358-31-3P
 390358-33-5P 390358-34-6P 390358-35-7P
 390358-36-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (prepn. of biphenyl sulfamates as **steroid sulfatase**
inhibitors for treatment of estrogen-dependent diseases)

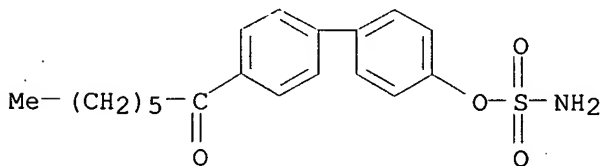
RN 390358-11-9 CAPLUS

CN Sulfamic acid, 4'-(1-oxopentyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



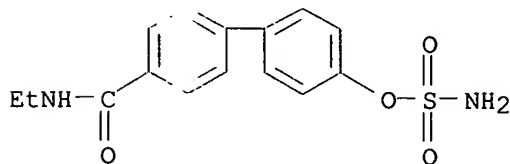
RN 390358-12-0 CAPLUS

CN Sulfamic acid, 4'-(1-oxoheptyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



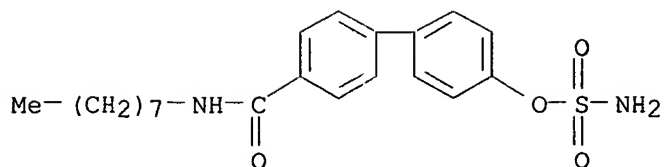
RN 390358-14-2 CAPLUS

CN Sulfamic acid, 4'-[(ethylamino)carbonyl][1,1'-biphenyl]-4-yl ester (9CI)
 (CA INDEX NAME)



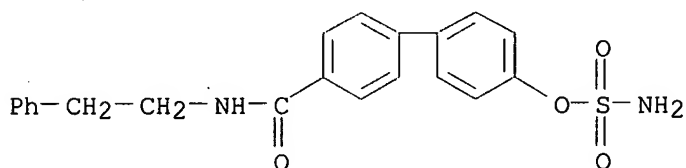
RN 390358-16-4 CAPLUS

CN Sulfamic acid, 4'-[(octylamino)carbonyl][1,1'-biphenyl]-4-yl ester (9CI)
 (CA INDEX NAME)



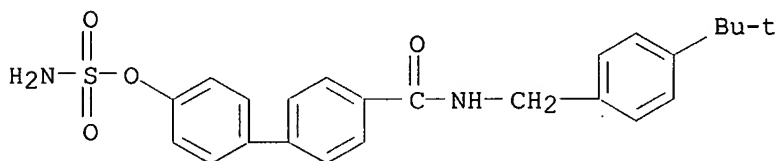
RN 390358-17-5 CAPLUS

CN Sulfamic acid, 4'-[[[(2-phenylethyl)amino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



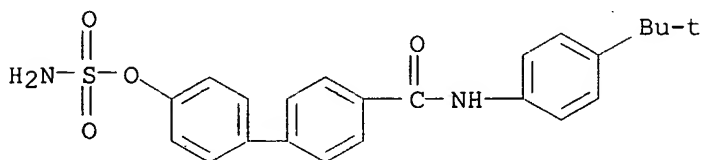
RN 390358-19-7 CAPLUS

CN Sulfamic acid, 4'-[[[4-(1,1-dimethylethyl)phenyl]methyl]amino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



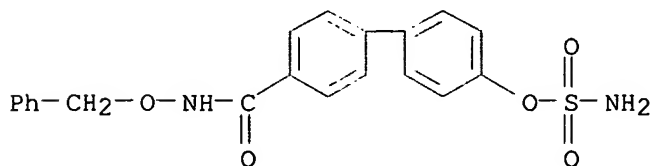
RN 390358-21-1 CAPLUS

CN Sulfamic acid, 4'-[[[4-(1,1-dimethylethyl)phenyl]amino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 390358-23-3 CAPLUS

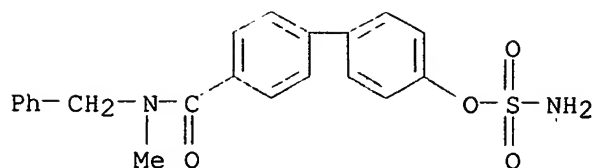
CN Sulfamic acid, 4'-[[[(phenylmethoxy)amino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 390358-25-5 CAPLUS

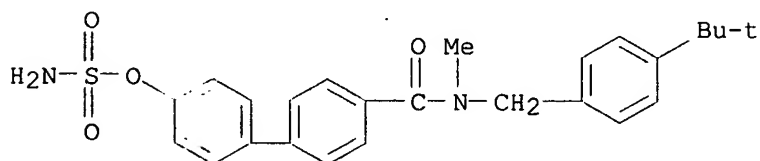
CN Sulfamic acid, 4'-[[[methyl(phenylmethyl)amino]carbonyl][1,1'-biphenyl]-4-

yl ester (9CI) (CA INDEX NAME)



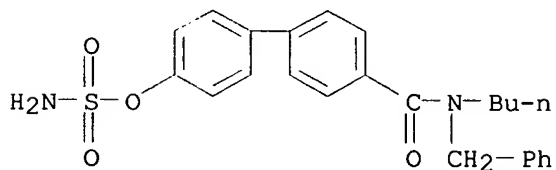
RN 390358-27-7 CAPLUS

CN Sulfamic acid, 4'-[[[4-(1,1-dimethylethyl)phenyl]methyl]methylamino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



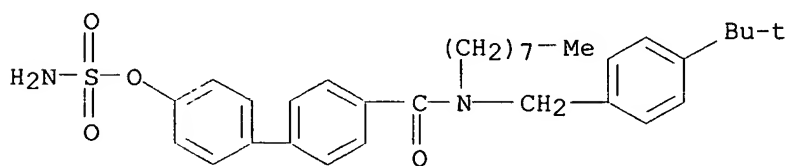
RN 390358-29-9 CAPLUS

CN Sulfamic acid, 4'-[[butyl(phenylmethyl)amino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



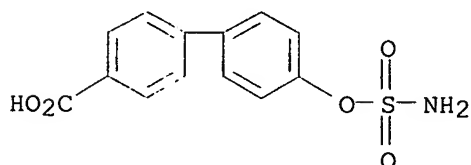
RN 390358-31-3 CAPLUS

CN Sulfamic acid, 4'-[[[4-(1,1-dimethylethyl)phenyl]methyl]octylamino]carbonyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



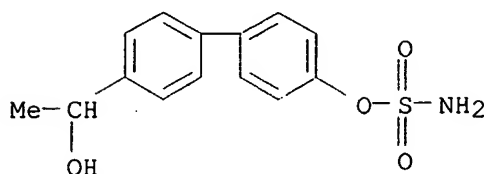
RN 390358-33-5 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)



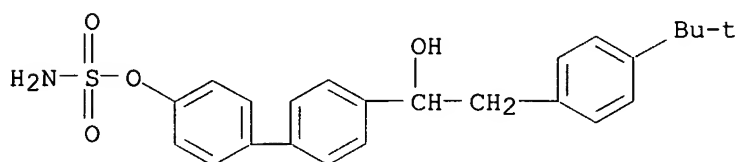
RN 390358-34-6 CAPLUS

CN Sulfamic acid, 4'-(1-hydroxyethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



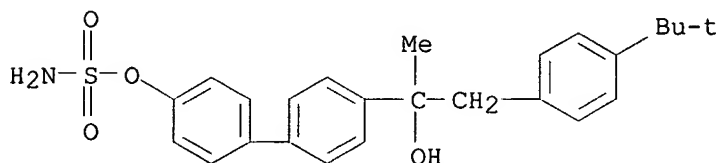
RN 390358-35-7 CAPLUS

CN Sulfamic acid, 4'-[2-[4-(1,1-dimethylethyl)phenyl]-1-hydroxyethyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 390358-36-8 CAPLUS

CN Sulfamic acid, 4'-[2-[4-(1,1-dimethylethyl)phenyl]-1-hydroxy-1-methylethyl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



L54 ANSWER 6 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:580 CAPLUS

DOCUMENT NUMBER: 136:145404

TITLE: Estrogen sulfamates: A new approach to oral estrogen therapy

AUTHOR(S): Elger, W.; Barth, A.; Hedden, A.; Reddersen, G.; Ritter, P.; Schneider, B.; Zuchner, J.; Krah, E.; Muller, K.; Oettel, M.; Schwarz, Sigfrid

CORPORATE SOURCE: EnTec GmbH Jena, Jena, 07745, Germany

SOURCE: Reproduction, Fertility and Development (2001), 13(4), 297-305

CODEN: RFDEEH; ISSN: 1031-3613

PUBLISHER: CSIRO Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Sulfamate substitution (-O-SO₂-NH₂) at carbon atom 3 of the steroid skeleton leads to orally active prodrugs of estrogens with much higher systemic, but lower hepatic, estrogenic activity than their parent steroids. This dissonance is achieved by first passage through the liver in erythrocytes, followed by systemic hydrolysis which releases the "parent" estrogen. In the rat, orally administered tritiated estradiol sulfamate, unlike estradiol, appears in the circulation at high concns. At C_{max}, approx. one-third of the administered dose forms a depot in the

circulation (98% in erythrocytes, 2% in plasma). Significant estradiol, estrone and estrone sulfate concns. were recorded in plasma during depletion of the red blood cell pool. Estradiol sulfamate (J995) has no estrogen receptor affinity per se or estrogenic activity in vitro (i.e., without hydrolysis). Its oral uterotrophic activity in rats is approx. 100 times greater than that of estradiol, however, its hepatotropic activity is only marginally elevated. These functions include bile secretion, the secretion of angiotensinogen, lipoproteins (total and high-d. lipoprotein cholesterol) and IGF-I. Orally administered estradiol sulfamate led to systemic estrogenic effects without significant hepatic responses, whereas estradiol and other conventional estrogens exerted parallel systemic and hepatic estrogenic effects. Sulfamate technol. represents an approach to the use of natural estrogens for **fertility** control and hormone replacement therapy in both genders. In this context, reduced effects on hemostatic factors, angiotensinogen, bile and IGF-I secretion seem the most important aspects. In addn., blood concns. of estrogens are less variable than with conventional estrogens.

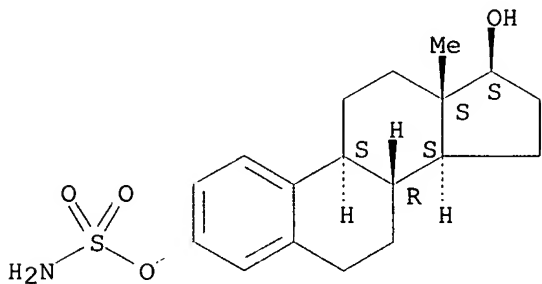
IT 172377-52-5, Estradiol 3-sulfamate

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(estrogen sulfamates as new approach to oral estrogen therapy)

RN 172377-52-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 3-sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 7 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:916410 CAPLUS

DOCUMENT NUMBER: 136:31708

TITLE: Coumarin derivatives for modulation of estrogen receptors

INVENTOR(S): Bhagwat, Shripad S.; McKie, Jeffrey A.; Khammungkhune, Sak

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA

SOURCE: U.S., 35 pp., Cont.-in-part of U. S. Ser. No. 492,939.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6331562	B1	20011218	US 2000-611156	20000706
WO 2000039120	A2	20000706	WO 1999-US31290	19991230
WO 2000039120	A3	20001026		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6291456 B1 20010918 US 2000-492939 20000127

WO 2001049673 A2 20010712 WO 2000-US35671 20001229

WO 2001049673 A3 20011206

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 1998-114472P P 19981230

US 1999-475776 B2 19991230

WO 1999-US31290 A2 19991230

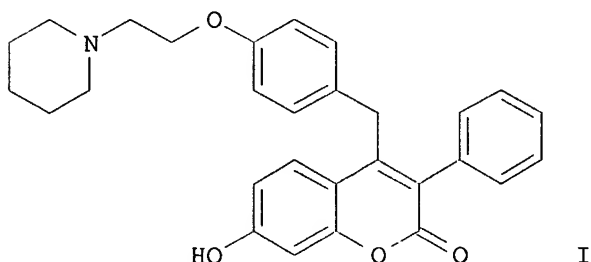
US 2000-492939 A2 20000127

US 2000-611156 A 20000706

OTHER SOURCE(S):

MARPAT 136:31708

GI



AB Compds. that modulate gene expression through the estrogen receptor (ER) are disclosed. In a specific embodiment, the compds. are selective modulators for ER-.beta. over ER-.alpha.. Methods are also disclosed for modulating ER-.beta. in cells and/or tissues expressing the same, including cells and/or tissues that preferentially express ER-.beta.. More generally, methods for treating estrogen-related conditions are also disclosed, including conditions such as is breast cancer, testicular cancer, osteoporosis, **endometriosis**, cardiovascular disease, hypercholesterolemia, prostatic hypertrophy, prostatic carcinomas, obesity, hot flashes, skin effects, mood swings, memory loss, urinary incontinence, hair loss, cataracts, natural hormonal imbalances, and adverse reproductive effects assocd. with exposure to environmental chems. E.g., I was prepd. and examples are given activity of representative compds. on IL-6 and GM-CSF prodn. in cells.

IT 280137-99-7P 280138-12-7P

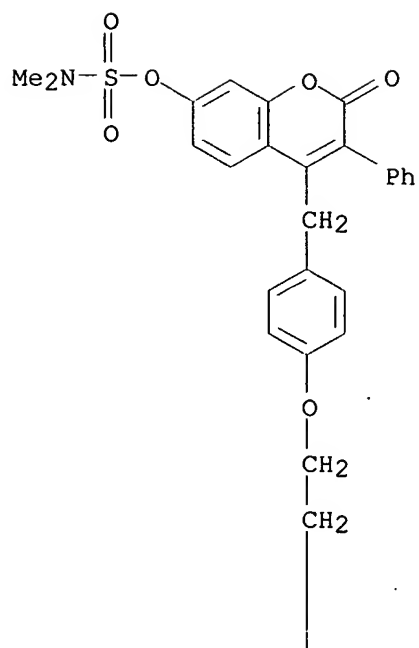
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (coumarin derivs. for modulation of estrogen receptors)

RN 280137-99-7 CAPLUS

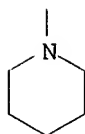
CN Sulfamic acid, dimethyl-, 2-oxo-3-phenyl-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA

INDEX NAME)

PAGE 1-A

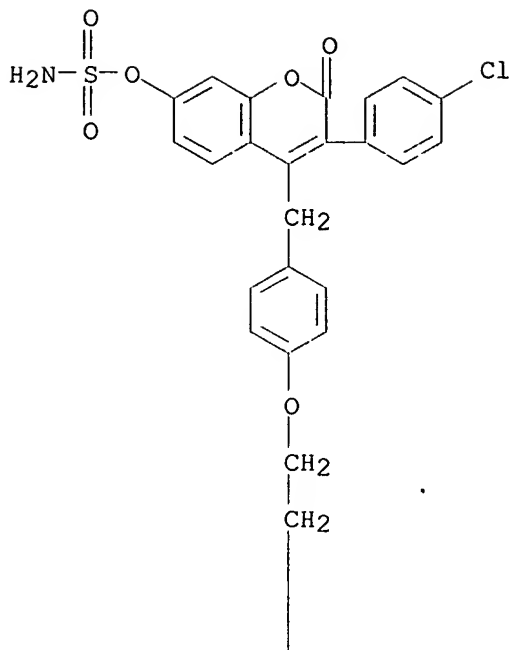


PAGE 2-A

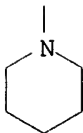


RN 280138-12-7 CAPLUS
CN Sulfamic acid, 3-(4-chlorophenyl)-2-oxo-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 96 THERE ARE 96 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:798240 CAPLUS

DOCUMENT NUMBER: 135:331582

TITLE: Preparation of estra-1,3,5(10)-triene derivatives as antitumor agents

INVENTOR(S): Ino, Yoji; Amishiro, Nobuyoshi; Miyata, Mayumi; Agatsuma, Tsutomu; Hayashi, Kozue; Takahashi, Takeshi; Akinaga, Shiro; Murakata, Chikara

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081364	A1	20011101	WO 2001-JP3505	20010424
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				

Searched by Barb O'Bryen, STIC 308-4291

HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

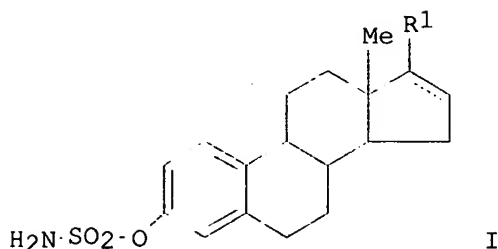
PRIORITY APPLN. INFO.:

JP 2000-121960 A 20000424

OTHER SOURCE(S):

CASREACT 135:331582; MARPAT 135:331582

GI



AB Title compds. [I; R1 = heterocyclylcarbonyl, cycloalkylaminocarbonyl, cycloalkylmethylaminocarbonyl, CH2:CHCH2NHCO, CHCCH2NHCO, NCCH2NHCO, (CH3)2N(CH2)2NHCO, CH3OCO(CH2)5NHCO, (CH3)2NCO(CH2)5NHCO, CH3NHCO(CH2)5NHCO, CH3CONHCH2CH2NHCO, CH3O(CH2)2NHCO, HOCH2C(CH3)2NHCO, HOOCCH(CH(CH3)2)NHCO, 3-HOCC6H4NHCO, C6H5CH2NHCO, heterocyclylaminocarbonyl, heterocyclylalkylaminocarbonyl, heterocyclyloxycarbonyl, etc.; dotted bond = double bond, single bond] and pharmacol. acceptable salts are prepd. as steroid sulfatase inhibitors. Thus, the title compd. I (R1 = CH3OCH2CH2NHCO; dotted bond = single bond) was prepd. and tested for steroid sulfatase inhibition activity with IC50(nmol/L) = 2.8.

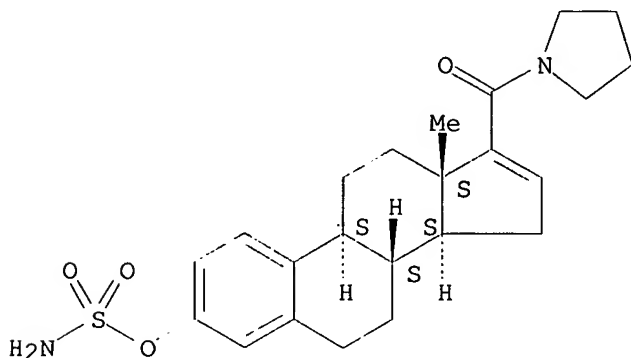
IT 370106-54-0P 370106-71-1P 370106-75-5P
 370106-82-4P 370106-86-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of estro-1,3,5-(10)-triene derivs. as antitumor agents)

RN 370106-54-0 CAPLUS

CN Sulfamic acid, 17-(1-pyrrolidinylcarbonyl)estra-1,3,5(10),16-tetraen-3-yl ester (9CI) (CA INDEX NAME)

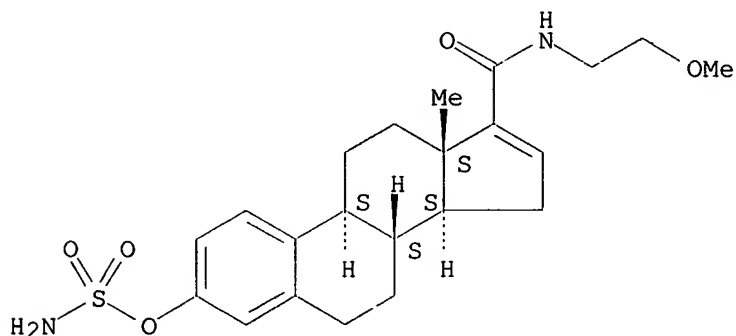
Absolute stereochemistry.



RN 370106-71-1 CAPLUS

CN Estr-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

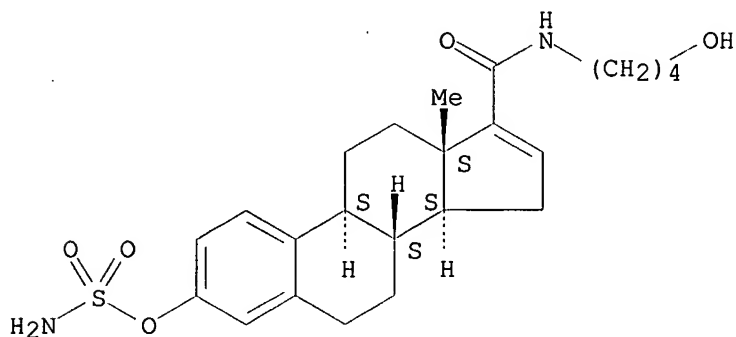
Absolute stereochemistry.



RN 370106-75-5 CAPLUS

CN Estr-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(4-hydroxybutyl)- (9CI) (CA INDEX NAME)

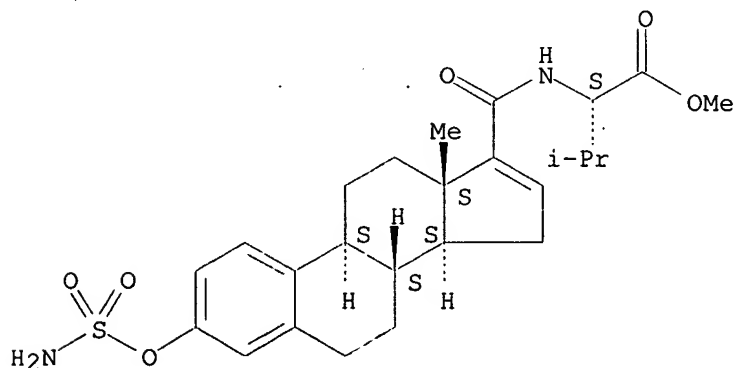
Absolute stereochemistry.



RN 370106-82-4 CAPLUS

CN L-Valine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

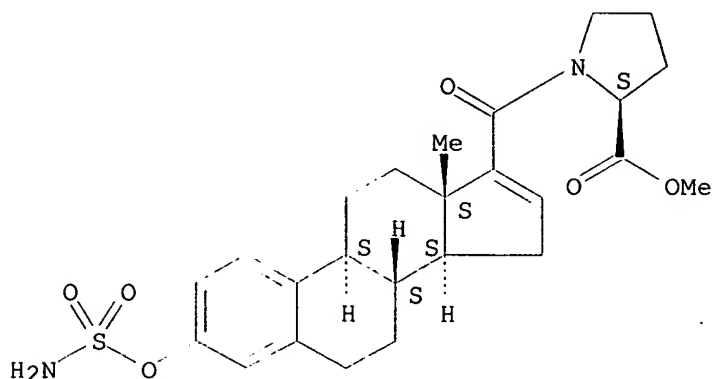


RN 370106-86-8 CAPLUS

CN L-Proline, 1-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-

yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 370106-58-4P 370106-60-8P 370106-62-0P
 370106-63-1P 370106-67-5P 370106-76-6P
 370106-87-9P 370106-90-4P 370106-92-6P
 370106-93-7P 370107-00-9P 370107-02-1P
 370107-08-7P 370107-11-2P 370107-15-6P
 370107-22-5P 370107-24-7P 370107-26-9P
 370107-29-2P 370107-34-9P 370107-36-1P
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 370107-44-1P 370107-45-2P

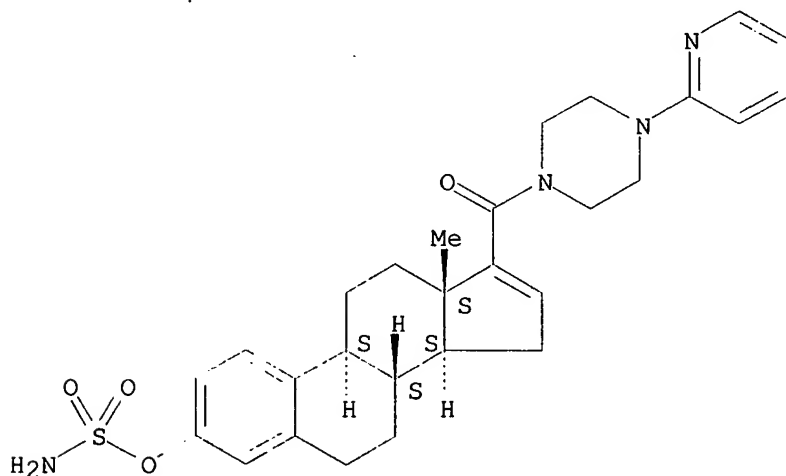
RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(prepn. of estro-1,3,5-(10)-triene derivs. as antitumor agents)

RN 370106-58-4 CAPLUS

CN Sulfamic acid, 17-[[4-(2-pyridinyl)-1-piperazinyl]carbonyl]estra-
 1,3,5(10),16-tetraen-3-yl ester (9CI) (CA INDEX NAME)

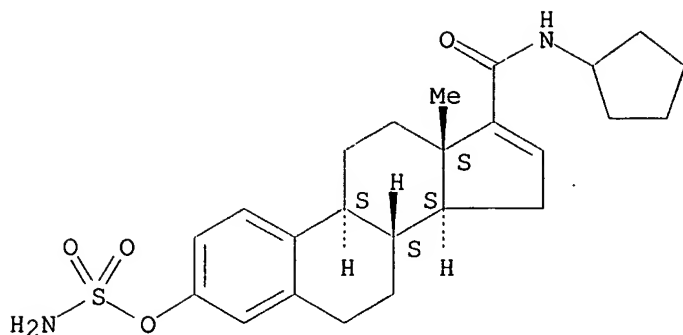
Absolute stereochemistry.



RN 370106-60-8 CAPLUS

CN Estrone-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-
 cyclopentyl- (9CI) (CA INDEX NAME)

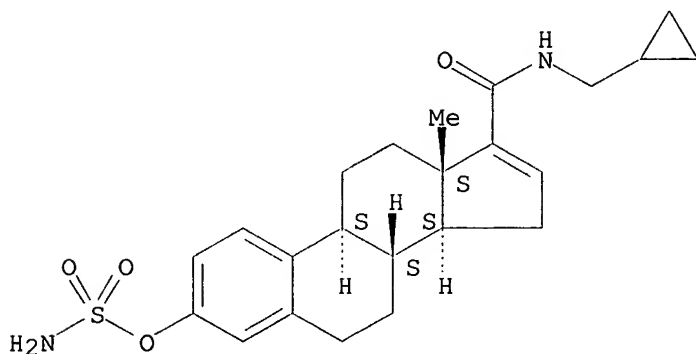
Absolute stereochemistry.



RN 370106-62-0 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(cyclopropylmethyl)- (9CI) (CA INDEX NAME)

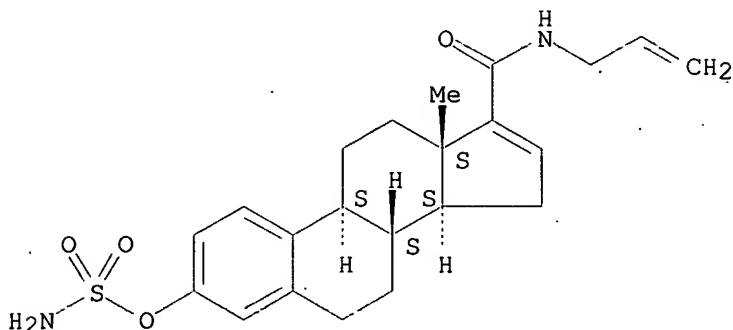
Absolute stereochemistry.



RN 370106-63-1 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-propenyl- (9CI) (CA INDEX NAME)

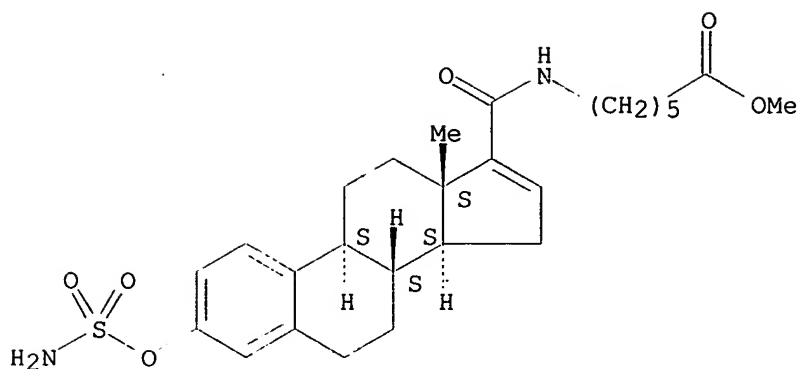
Absolute stereochemistry.



RN 370106-67-5 CAPLUS

CN Hexanoic acid, 6-[[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

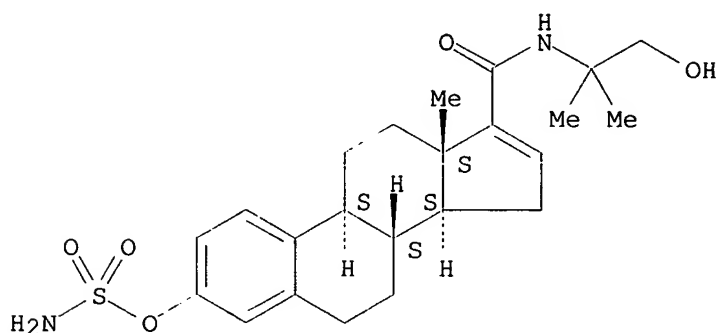
Absolute stereochemistry.



RN 370106-76-6 CAPLUS

CN Estrone-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-hydroxy-1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

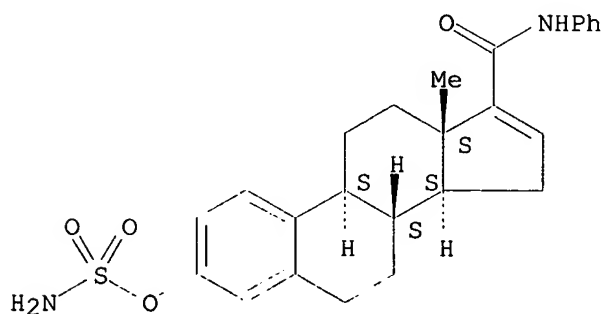
Absolute stereochemistry.



RN 370106-87-9 CAPLUS

CN Estrone-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-phenyl- (9CI) (CA INDEX NAME)

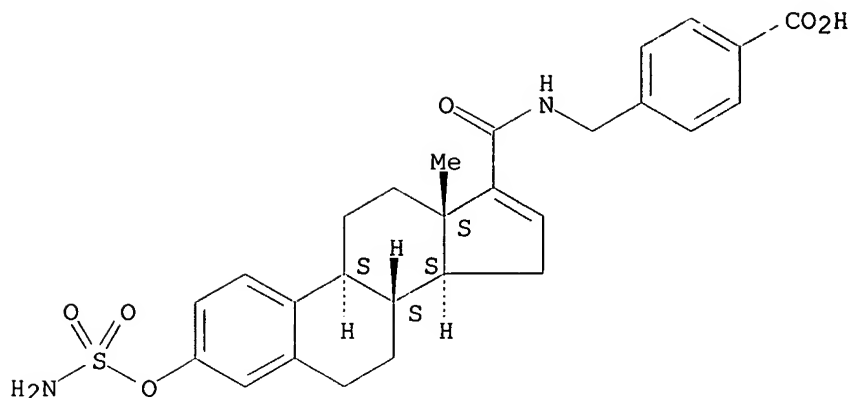
Absolute stereochemistry.



RN 370106-90-4 CAPLUS

CN Benzoic acid, 4-[[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)

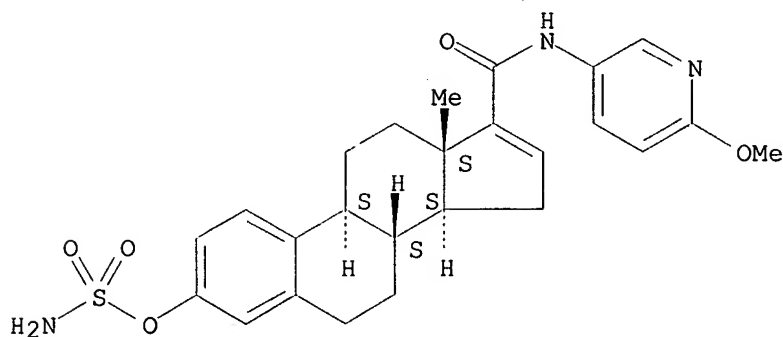
Absolute stereochemistry.



RN 370106-92-6 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(6-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

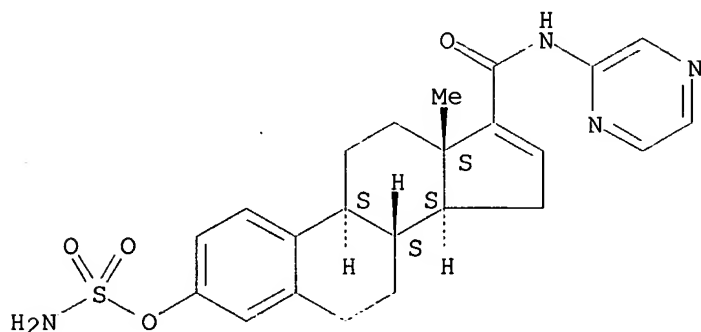
Absolute stereochemistry.



RN 370106-93-7 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-pyrazinyl- (9CI) (CA INDEX NAME)

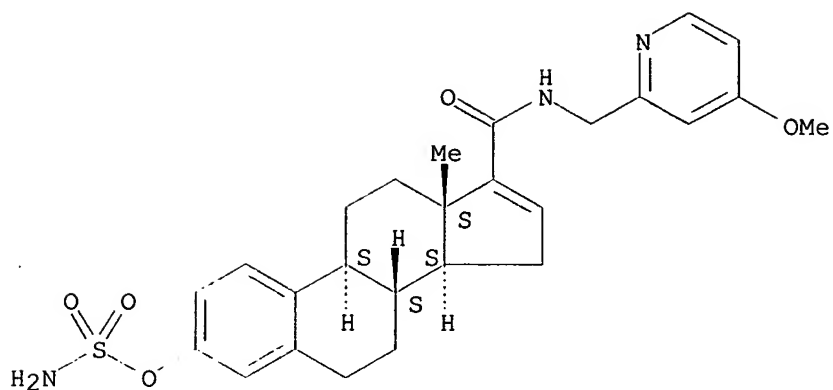
Absolute stereochemistry.



RN 370107-00-9 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[(4-methoxy-2-pyridinyl)methyl]- (9CI) (CA INDEX NAME)

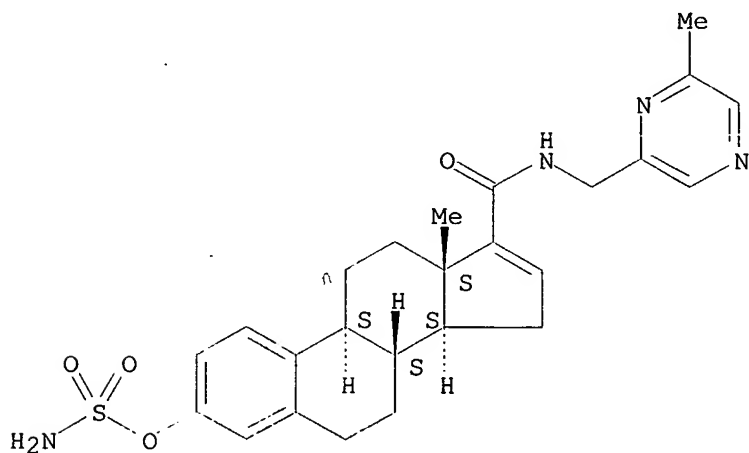
Absolute stereochemistry.



RN 370107-02-1 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[(6-methylpyrazinyl)methyl]- (9CI) (CA INDEX NAME)

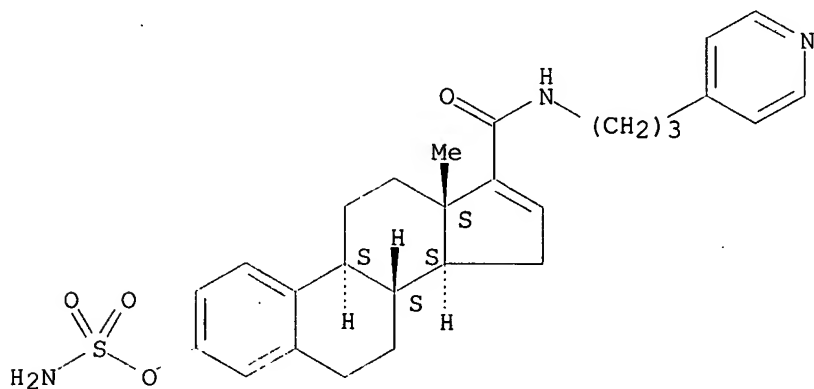
Absolute stereochemistry.



RN 370107-08-7 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[3-(4-pyridinyl)propyl]- (9CI) (CA INDEX NAME)

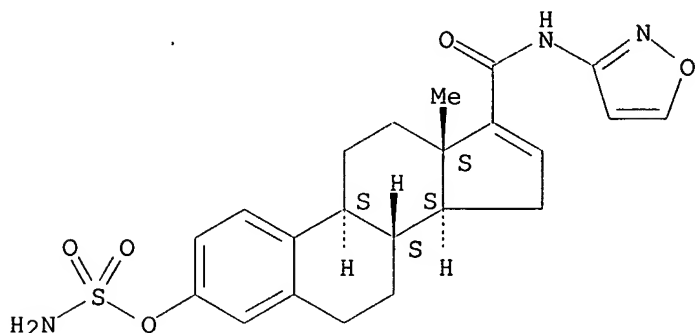
Absolute stereochemistry.



RN 370107-11-2 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-3-isoxazolyl- (9CI) (CA INDEX NAME)

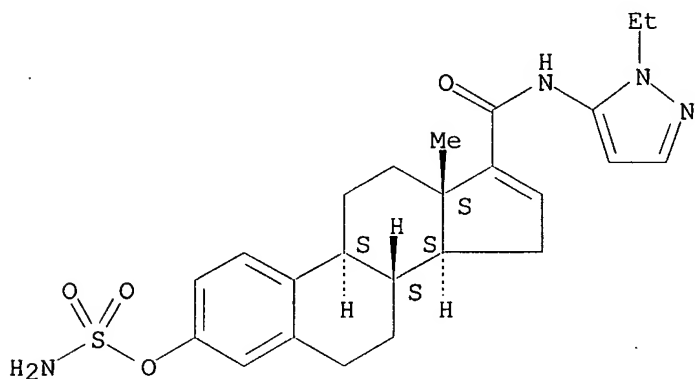
Absolute stereochemistry.



RN 370107-15-6 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(1-ethyl-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

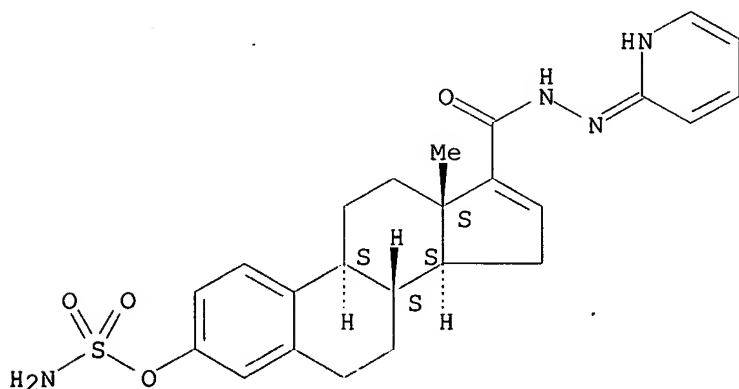
Absolute stereochemistry.



RN 370107-22-5 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, 2-(2-pyridinyl)hydrazide (9CI) (CA INDEX NAME)

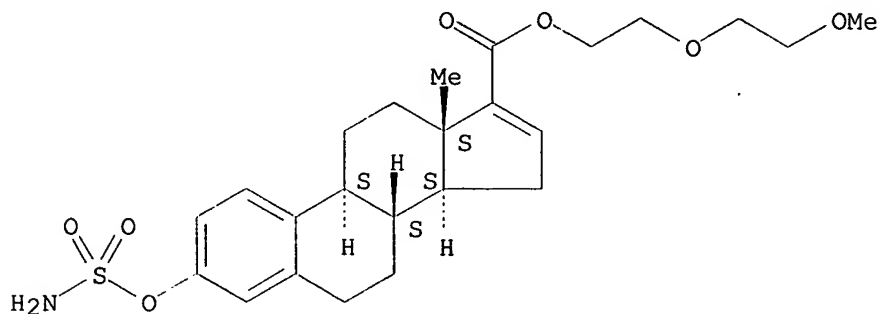
Absolute stereochemistry.



RN 370107-24-7 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, 2-(2-methoxyethoxy)ethyl ester (9CI) (CA INDEX NAME)

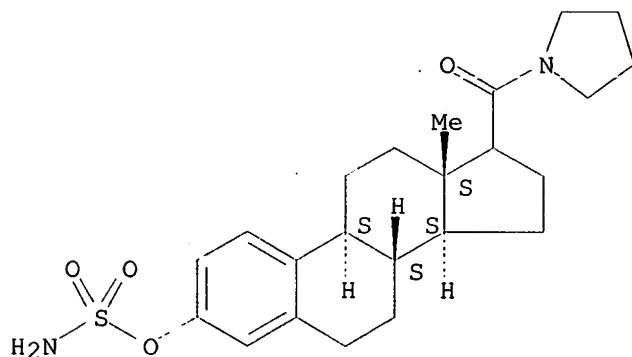
Absolute stereochemistry.



RN 370107-26-9 CAPLUS

CN Sulfamic acid, 17-(1-pyrrolidinylcarbonyl)estra-1,3,5(10)-trien-3-yl ester (9CI) (CA INDEX NAME)

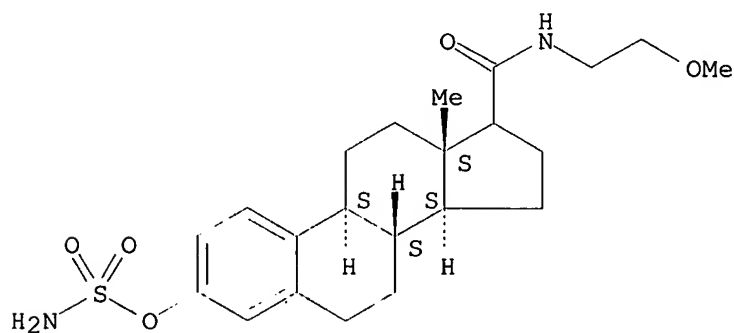
Absolute stereochemistry.



RN 370107-29-2 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

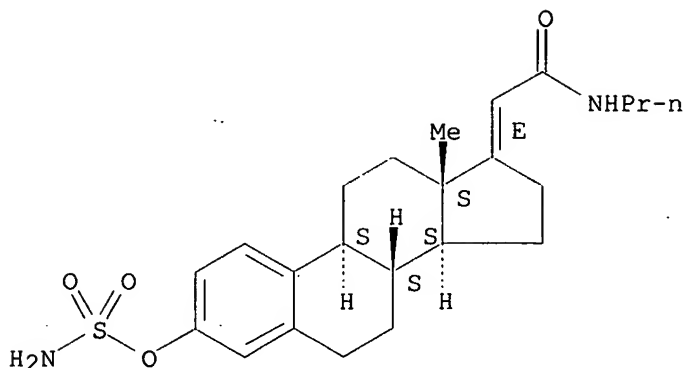
Absolute stereochemistry.



RN 370107-34-9 CAPLUS

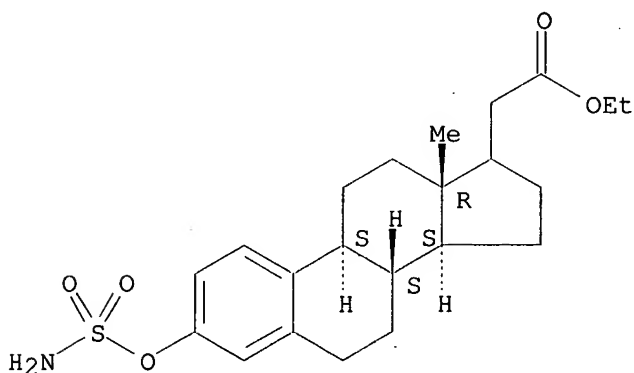
CN 19-Norpregna-1,3,5(10),17(20)-tetraen-21-amide, 3-[(aminosulfonyl)oxy]-N-propyl-, (17E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



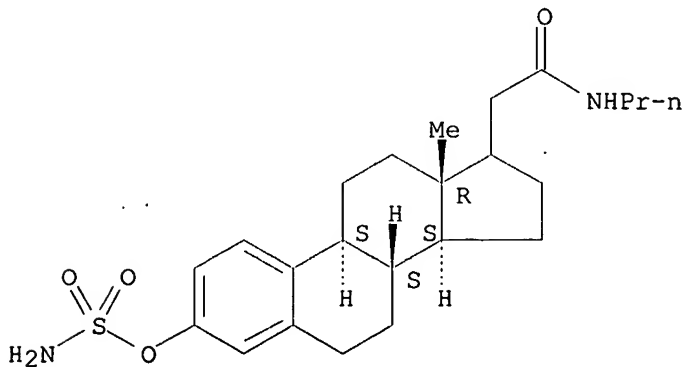
RN 370107-36-1 CAPLUS
CN 19-Norpregna-1,3,5(10)-trien-21-oic acid, 3-[(aminosulfonyl)oxy]-, ethyl ester, (17.xi.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



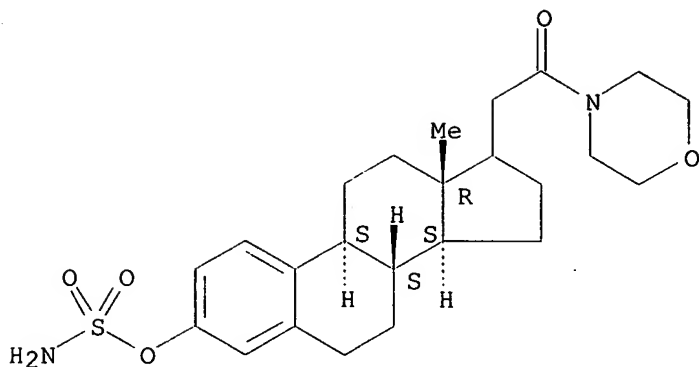
RN 370107-38-3 CAPLUS
CN 19-Norpregna-1,3,5(10)-trien-21-amide, 3-[(aminosulfonyl)oxy]-N-propyl-, (17.xi.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 370107-41-8 CAPLUS
CN Sulfamic acid, (17.xi.)-21-(4-morpholinyl)-21-oxo-19-norpregna-1,3,5(10)-trien-3-yl ester (9CI) (CA INDEX NAME)

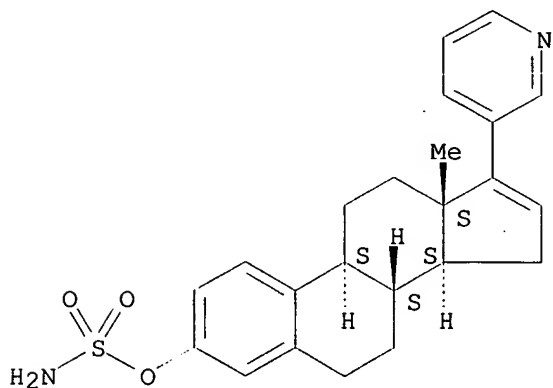
Absolute stereochemistry.



RN 370107-43-0 CAPLUS

CN Estra-1,3,5(10),16-tetraen-3-ol, 17-(3-pyridinyl)-, sulfamate (ester)
(9CI) (CA INDEX NAME)

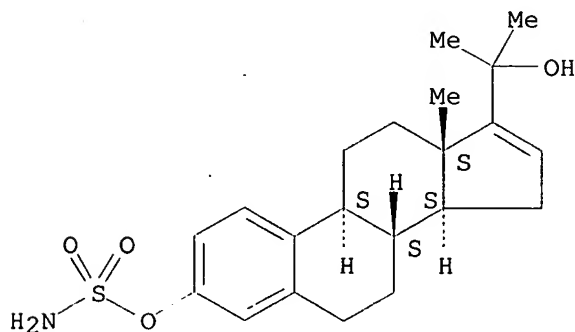
Absolute stereochemistry.



RN 370107-44-1 CAPLUS

CN 19-Norpregna-1,3,5(10),16-tetraene-3,20-diol, 20-methyl-, 3-sulfamate
(9CI) (CA INDEX NAME)

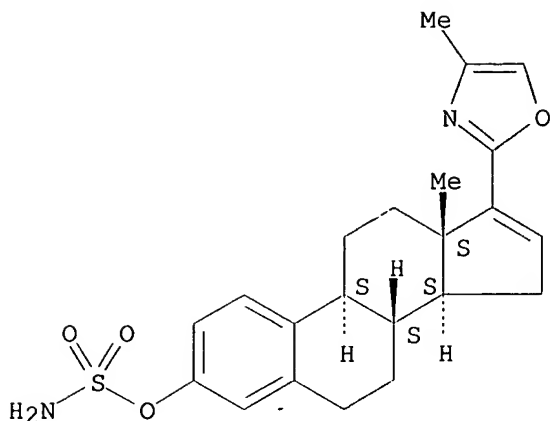
Absolute stereochemistry.



RN 370107-45-2 CAPLUS

CN Estra-1,3,5(10),16-tetraen-3-ol, 17-(4-methyl-2-oxazolyl)-, sulfamate
(ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 370106-66-4P 370106-70-0P 370106-72-2P
370106-74-4P 370106-91-5P 370107-46-3P
370107-47-4P

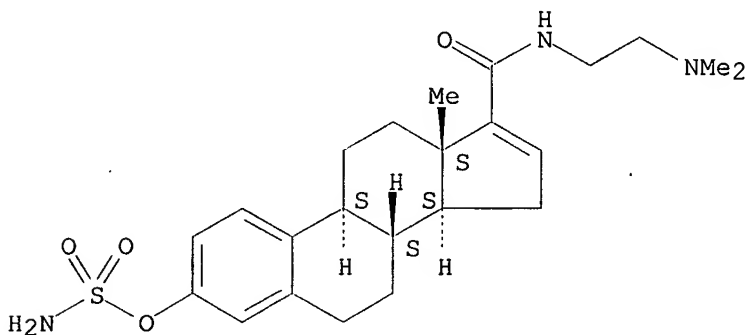
RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of estra-1,3,5-(10)-triene derivs. as antitumor agents)

RN 370106-66-4 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

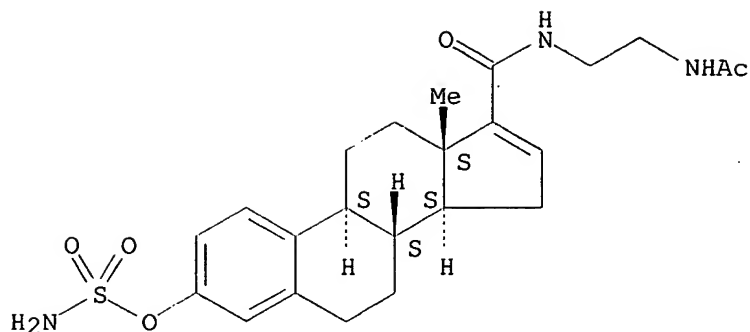
Absolute stereochemistry.



RN 370106-70-0 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, N-[2-(acetylamino)ethyl]-3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

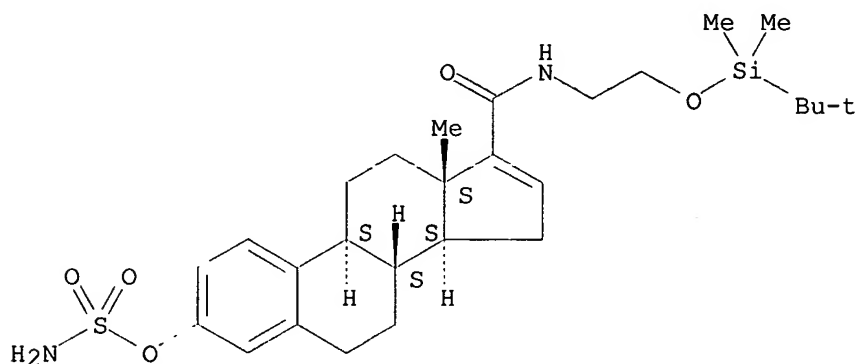
Absolute stereochemistry.



RN 370106-72-2 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]]- (9CI) (CA INDEX NAME)

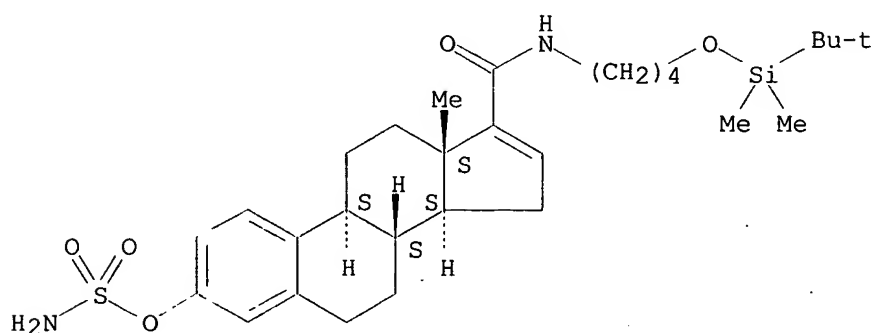
Absolute stereochemistry.



RN 370106-74-4 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butyl]]- (9CI) (CA INDEX NAME)

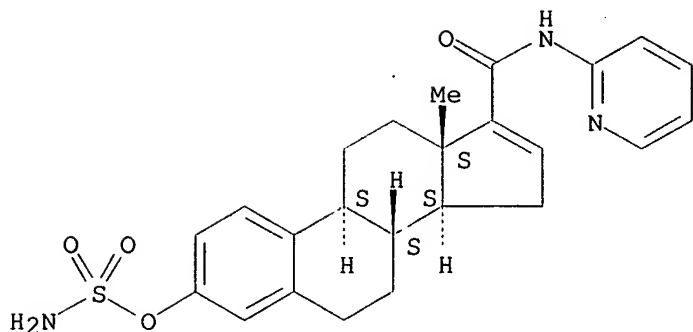
Absolute stereochemistry.



RN 370106-91-5 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-pyridinyl- (9CI) (CA INDEX NAME)

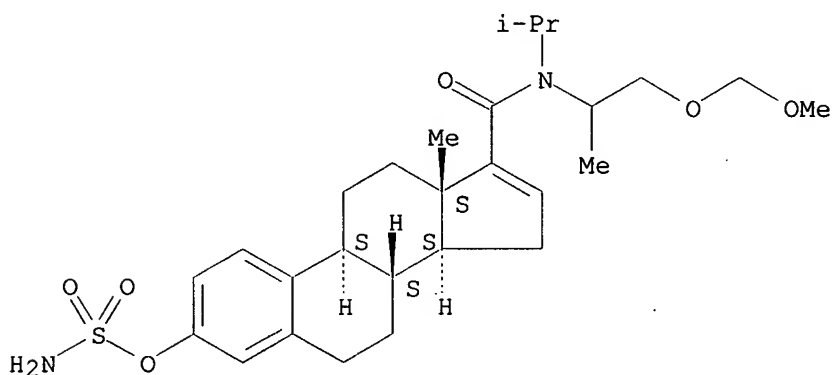
Absolute stereochemistry.



RN 370107-46-3 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(methoxymethoxy)-1-methylethyl]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

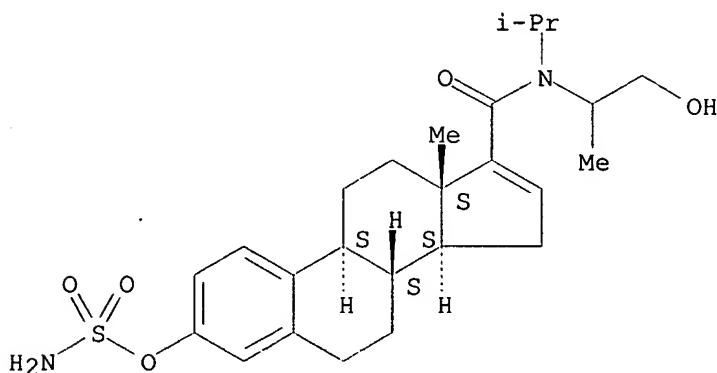
Absolute stereochemistry.



RN 370107-47-4 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-hydroxy-1-methylethyl)-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 370106-55-1P 370106-56-2P 370106-57-3P
370106-59-5P 370106-61-9P 370106-64-2P
370106-65-3P 370106-68-6P 370106-69-7P
370106-73-3P 370106-77-7P 370106-78-8P
370106-79-9P 370106-80-2P 370106-81-3P
370106-83-5P 370106-84-6P 370106-85-7P

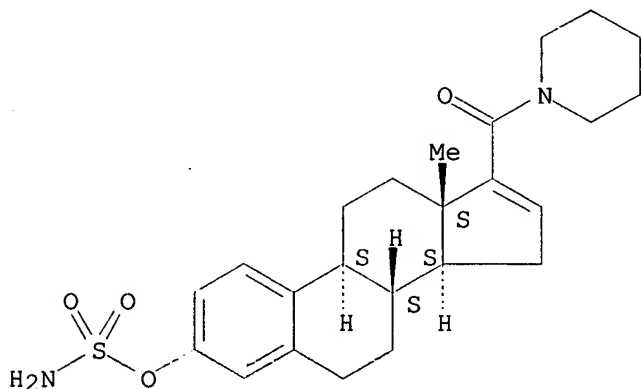
370106-88-0P 370106-89-1P 370106-94-8P
370106-95-9P 370106-96-0P 370106-97-1P
370106-98-2P 370106-99-3P 370107-01-0P
370107-03-2P 370107-04-3P 370107-05-4P
370107-06-5P 370107-07-6P 370107-09-8P
370107-10-1P 370107-12-3P 370107-13-4P
370107-14-5P 370107-16-7P 370107-17-8P
370107-18-9P 370107-19-0P 370107-20-3P
370107-21-4P 370107-23-6P 370107-25-8P
370107-27-0P 370107-28-1P 370107-30-5P
370107-31-6P 370107-32-7P 370107-33-8P
370107-35-0P 370107-37-2P 370107-39-4P
370107-40-7P 370107-42-9P 370107-48-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(prepn. of estra-1,3,5-(10)-triene derivs. as antitumor agents)

RN 370106-55-1 CAPLUS

CN Sulfamic acid, 17-(1-piperidinylcarbonyl)estra-1,3,5(10),16-tetraen-3-yl
ester (9CI) (CA INDEX NAME)

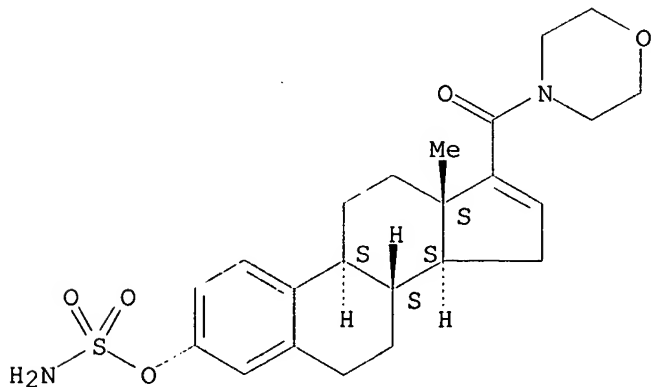
Absolute stereochemistry.



RN 370106-56-2 CAPLUS

CN Sulfamic acid, 17-(4-morpholinylcarbonyl)estra-1,3,5(10),16-tetraen-3-yl
ester (9CI) (CA INDEX NAME)

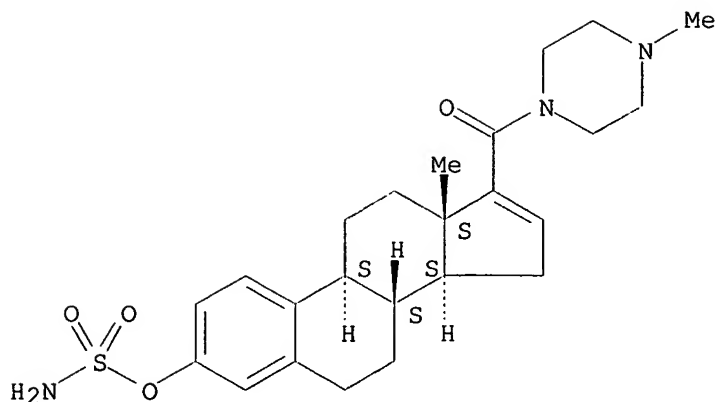
Absolute stereochemistry.



RN 370106-57-3 CAPLUS

CN Sulfamic acid, 17-[(4-methyl-1-piperazinyl)carbonyl]estra-1,3,5(10),16-
tetraen-3-yl ester (9CI) (CA INDEX NAME)

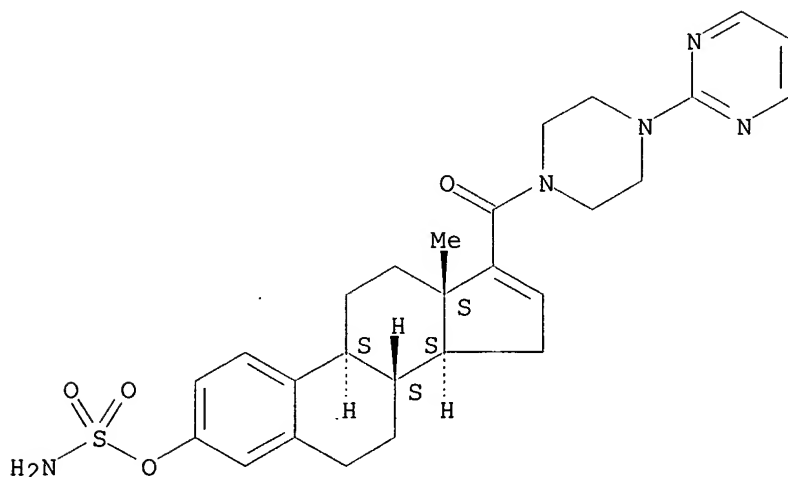
Absolute stereochemistry.



RN 370106-59-5 CAPLUS

CN Sulfamic acid, 17-[[4-(2-pyrimidinyl)-1-piperazinyl]carbonyl]estra-1,3,5(10),16-tetraen-3-yl ester (9CI) (CA INDEX NAME)

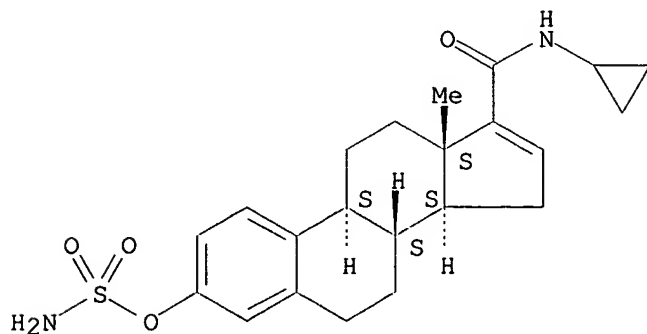
Absolute stereochemistry.



RN 370106-61-9 CAPLUS

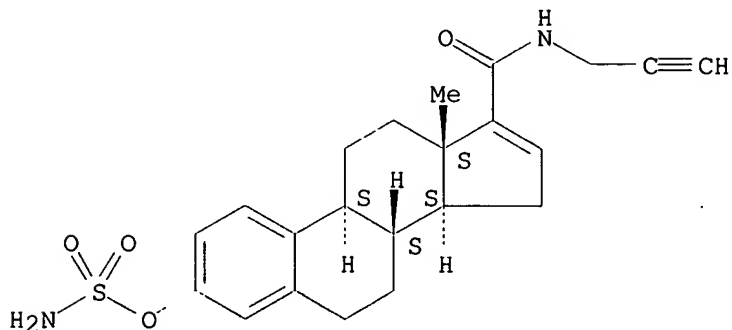
CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-cyclopropyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



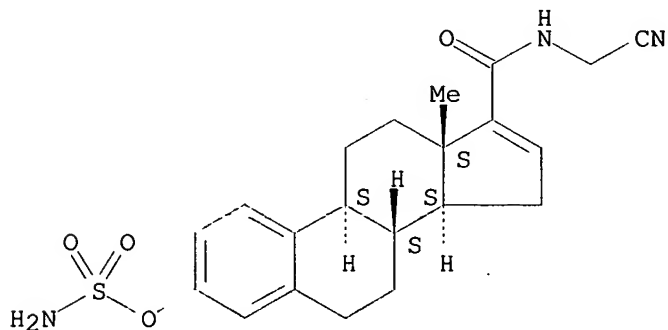
RN 370106-64-2 CAPLUS
CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-propynyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



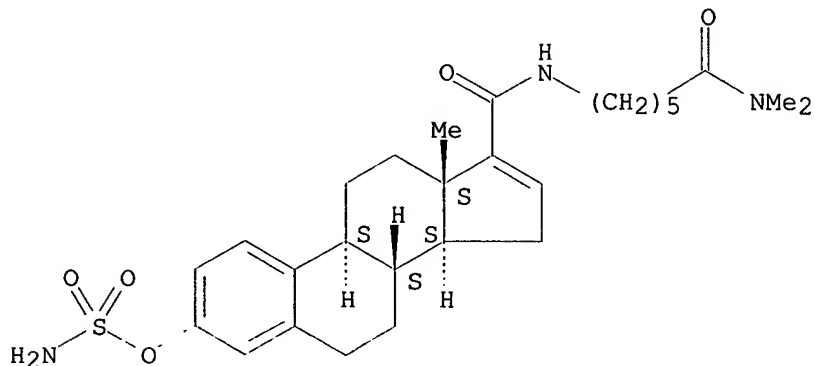
RN 370106-65-3 CAPLUS
CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(cyanomethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 370106-68-6 CAPLUS
CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[6-(dimethylamino)-6-oxohexyl]- (9CI) (CA INDEX NAME)

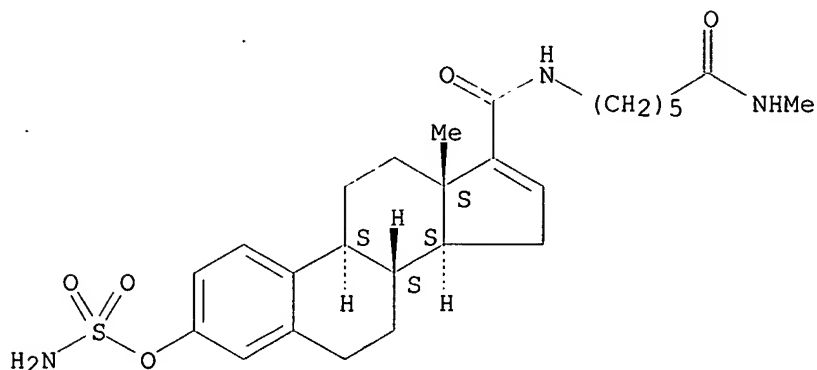
Absolute stereochemistry.



RN 370106-69-7 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[6-(methylamino)-6-oxohexyl]- (9CI) (CA INDEX NAME)

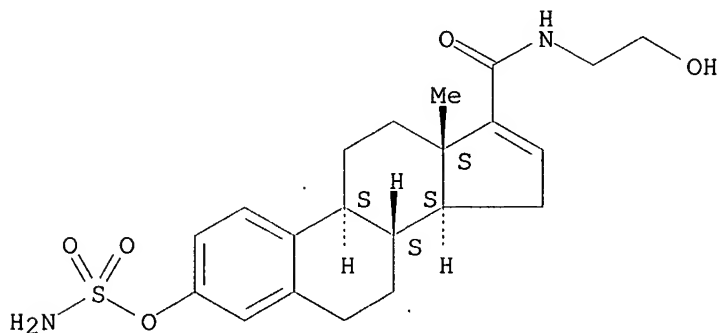
Absolute stereochemistry.



RN 370106-73-3 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

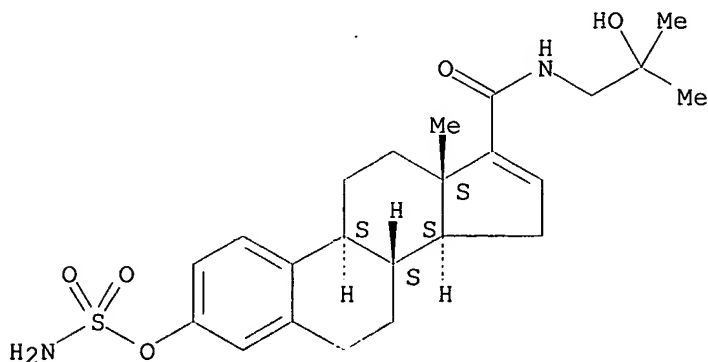
Absolute stereochemistry.



RN 370106-77-7 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-hydroxy-2-methylpropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

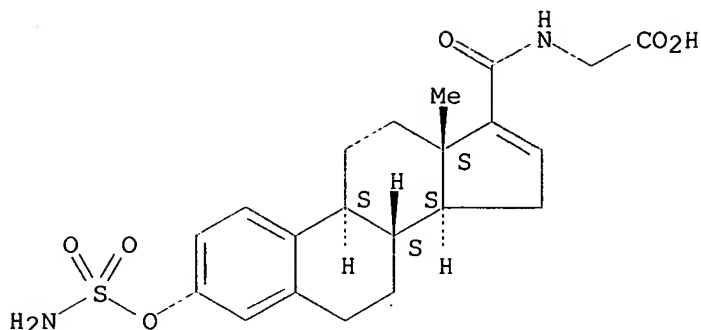


RN 370106-78-8 CAPLUS

CN Glycine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-

yl]carbonyl]- (9CI) (CA INDEX NAME)

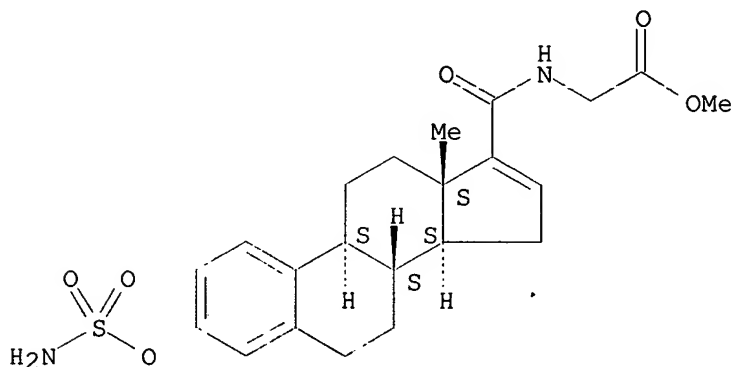
Absolute stereochemistry.



RN 370106-79-9 CAPLUS

CN Glycine; N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

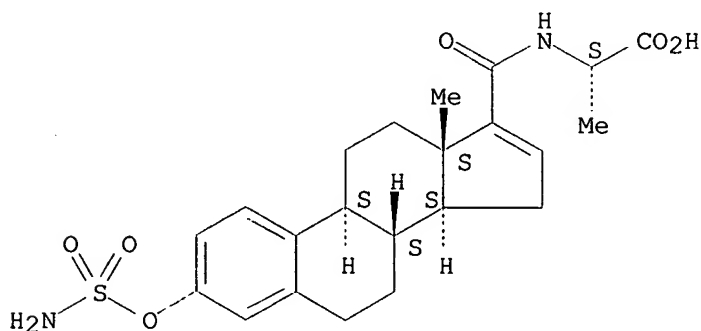
Absolute stereochemistry.



RN 370106-80-2 CAPLUS

CN L-Alanine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]- (9CI) (CA INDEX NAME)

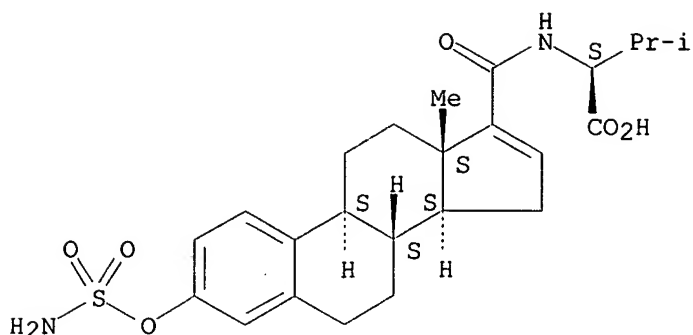
Absolute stereochemistry.



RN 370106-81-3 CAPLUS

CN L-Valine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]- (9CI) (CA INDEX NAME)

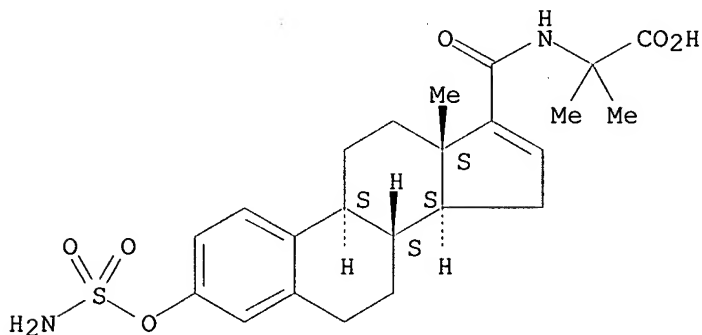
Absolute stereochemistry.



RN 370106-83-5 CAPLUS

CN Alanine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]-2-methyl- (9CI) (CA INDEX NAME)

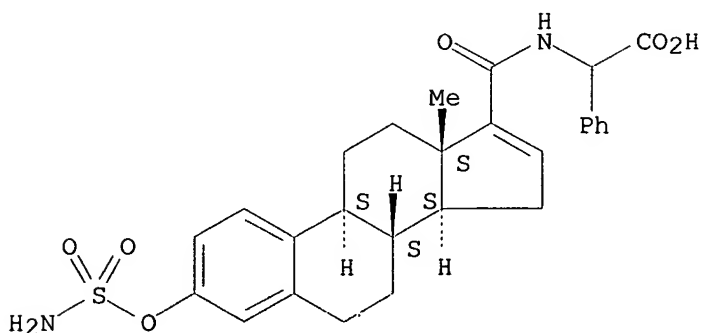
Absolute stereochemistry.



RN 370106-84-6 CAPLUS

CN Benzeneacetic acid, .alpha.-[[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]amino]- (9CI) (CA INDEX NAME)

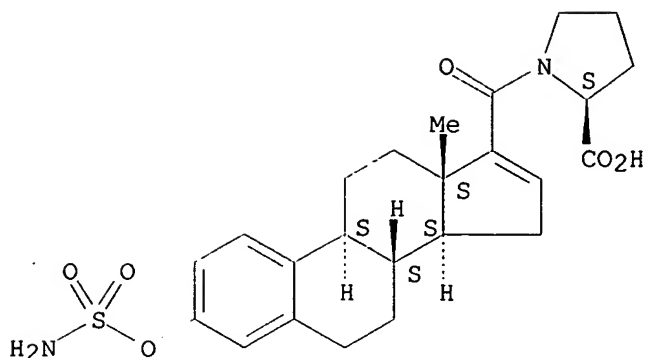
Absolute stereochemistry.



RN 370106-85-7 CAPLUS

CN L-Proline, 1-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]- (9CI) (CA INDEX NAME)

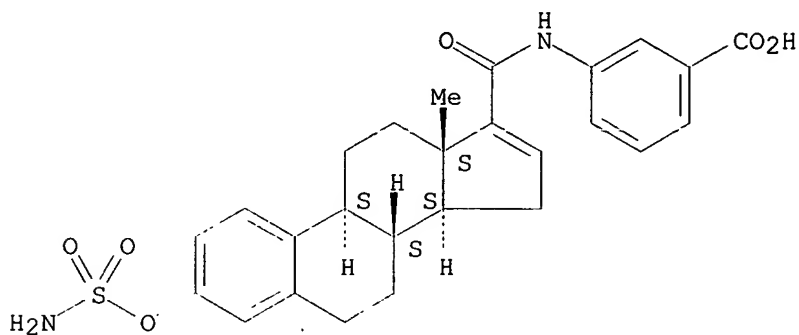
Absolute stereochemistry.



RN 370106-88-0 CAPLUS

CN Benzoic acid, 3-[[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]amino]- (9CI) (CA INDEX NAME)

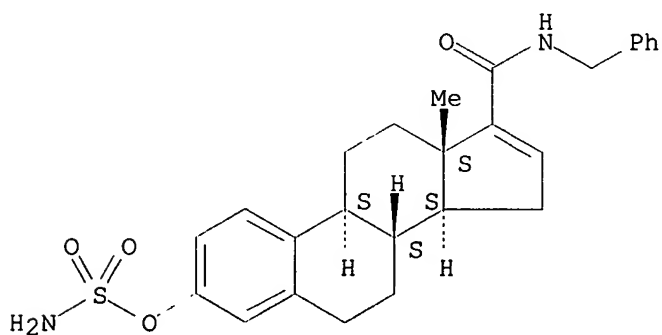
Absolute stereochemistry.



RN 370106-89-1 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

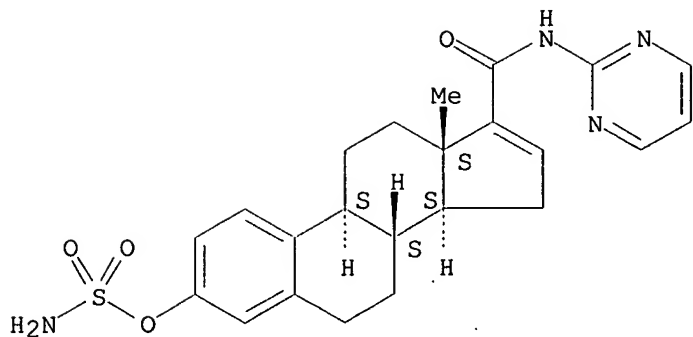
Absolute stereochemistry.



RN 370106-94-8 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)

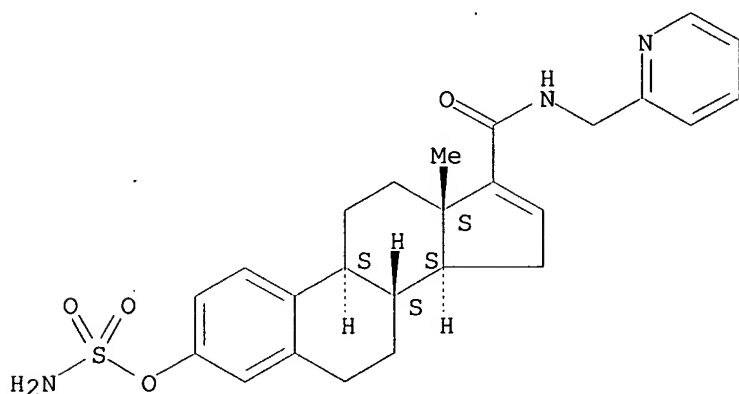
Absolute stereochemistry.



RN 370106-95-9 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)

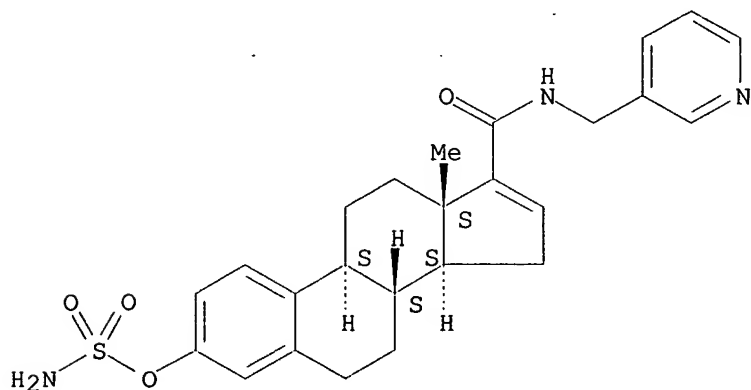
Absolute stereochemistry.



RN 370106-96-0 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

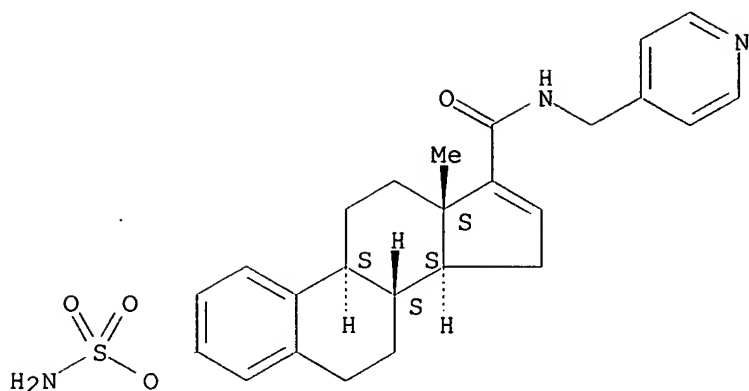
Absolute stereochemistry.



RN 370106-97-1 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

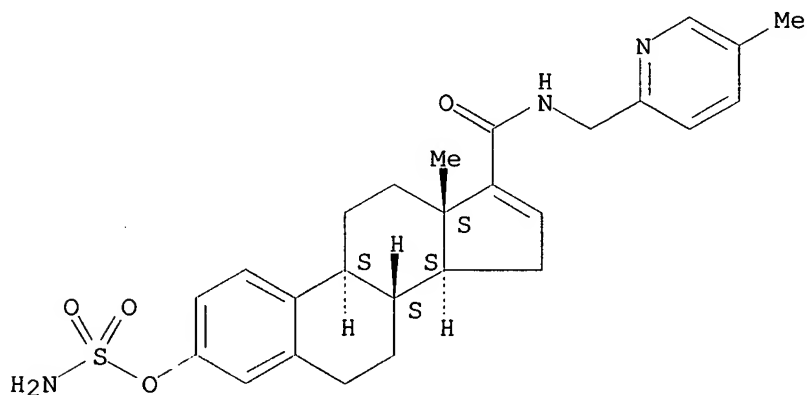
Absolute stereochemistry.



RN 370106-98-2 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[(5-methyl-2-pyridinyl)methyl]- (9CI) (CA INDEX NAME)

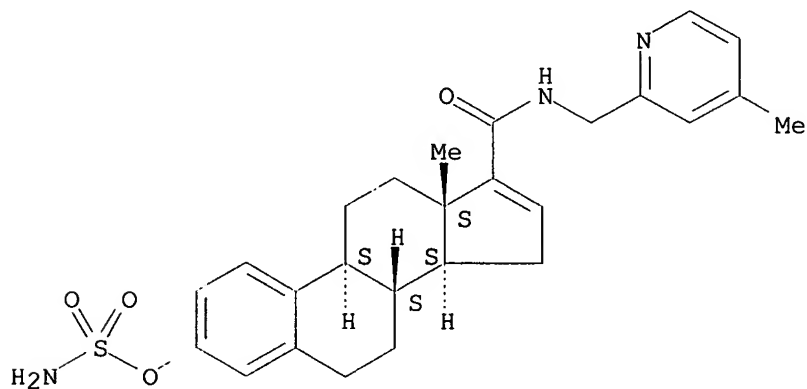
Absolute stereochemistry.



RN 370106-99-3 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[(4-methyl-2-pyridinyl)methyl]- (9CI) (CA INDEX NAME)

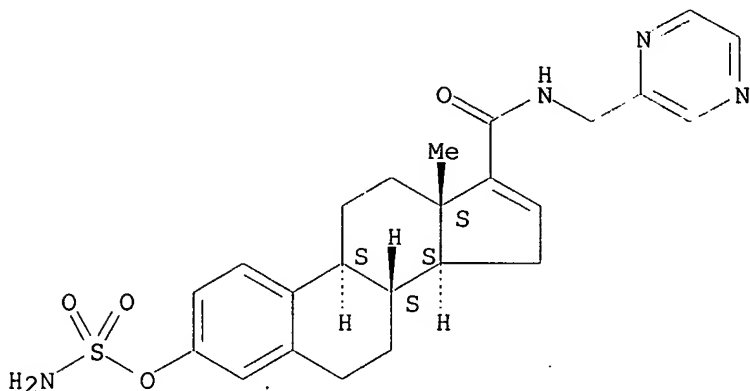
Absolute stereochemistry.



RN 370107-01-0 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(pyrazinylmethyl)- (9CI) (CA INDEX NAME)

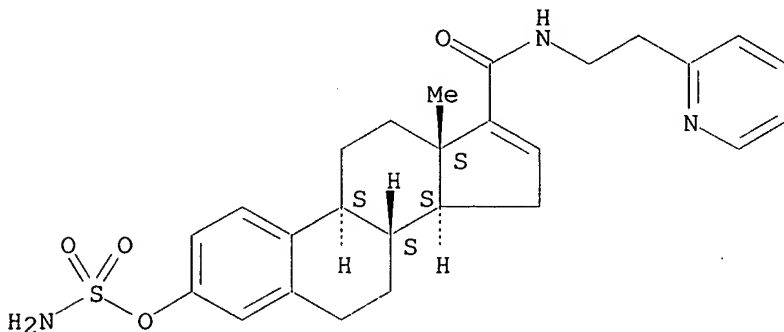
Absolute stereochemistry.



RN 370107-03-2 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)

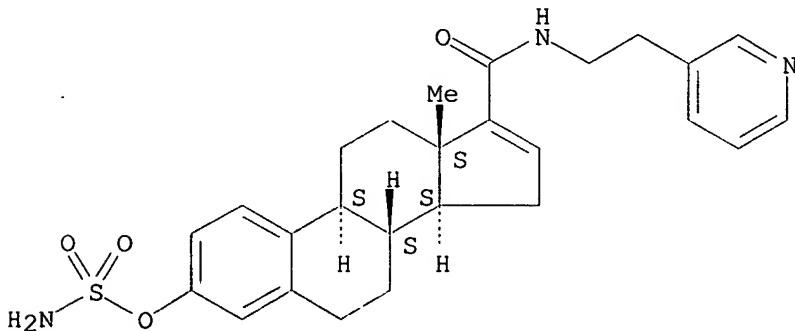
Absolute stereochemistry.



RN 370107-04-3 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(3-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

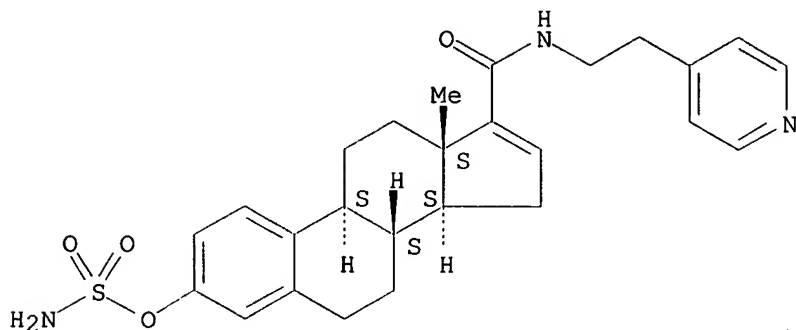


RN 370107-05-4 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(4-

pyridinyl)ethyl]- (9CI) (CA INDEX NAME)

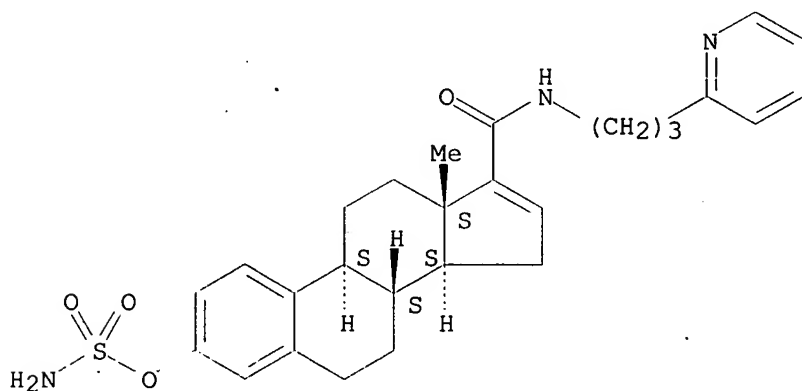
Absolute stereochemistry.



RN 370107-06-5 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[3-(2-pyridinyl)propyl]- (9CI) (CA INDEX NAME)

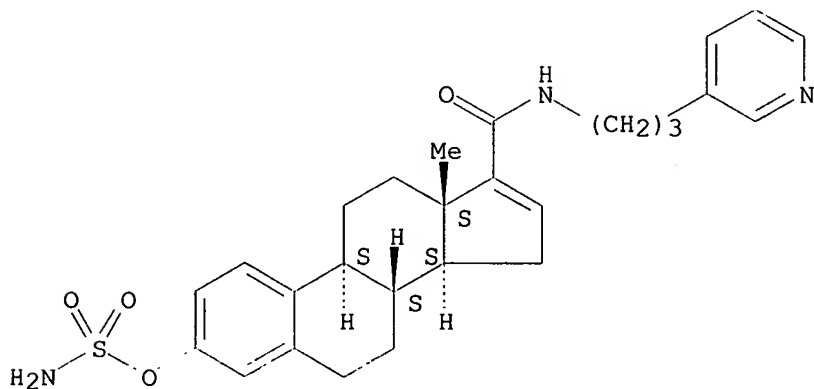
Absolute stereochemistry.



RN 370107-07-6 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[3-(3-pyridinyl)propyl]- (9CI) (CA INDEX NAME)

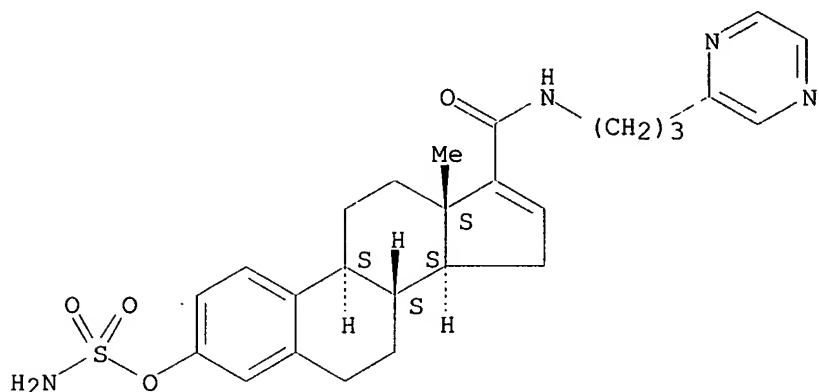
Absolute stereochemistry.



RN 370107-09-8 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(3-pyrazinylpropyl)- (9CI) (CA INDEX NAME)

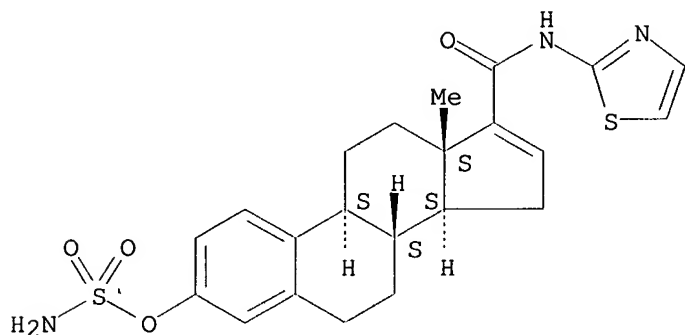
Absolute stereochemistry.



RN 370107-10-1 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-thiazolyl- (9CI) (CA INDEX NAME)

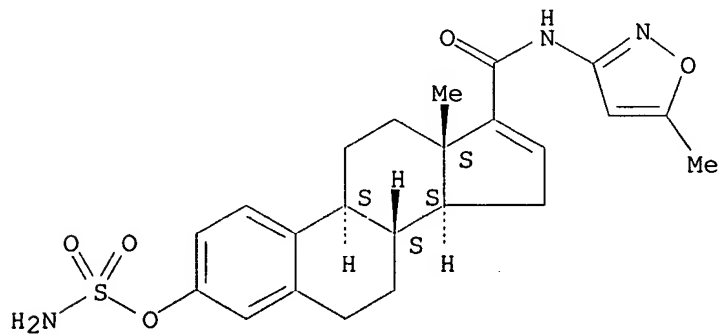
Absolute stereochemistry.



RN 370107-12-3 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

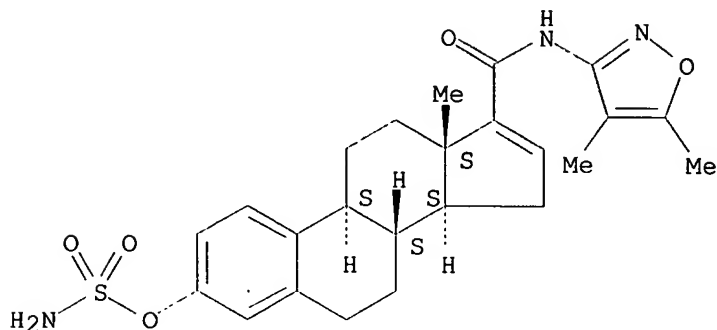


RN 370107-13-4 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(4,5-

dimethyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

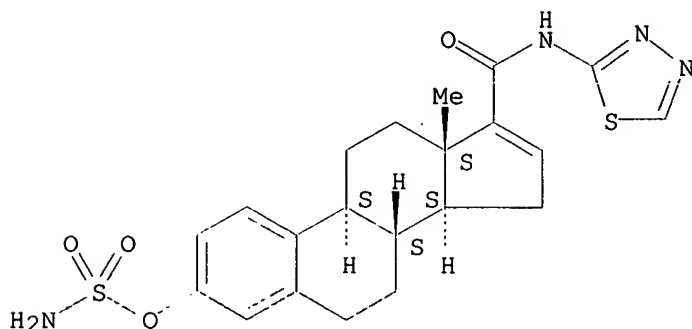
Absolute stereochemistry.



RN 370107-14-5 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-1,3,4-thiadiazol-2-yl- (9CI) (CA INDEX NAME)

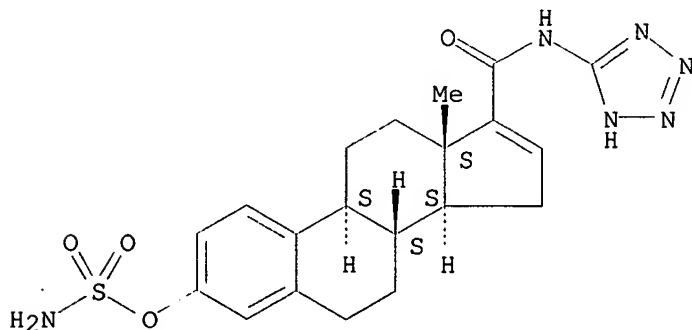
Absolute stereochemistry.



RN 370107-16-7 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)

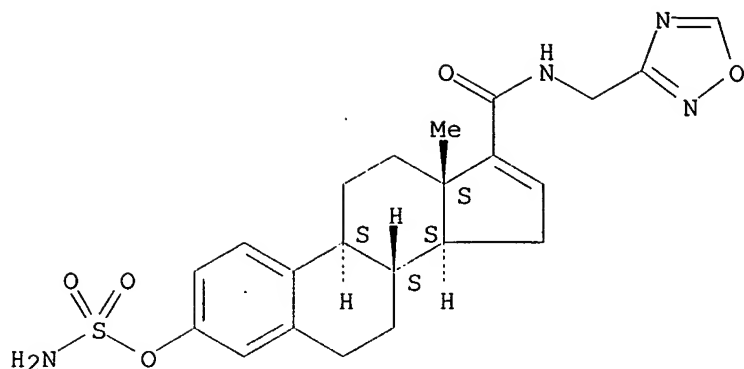
Absolute stereochemistry.



RN 370107-17-8 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(1,2,4-oxadiazol-3-ylmethyl)- (9CI) (CA INDEX NAME)

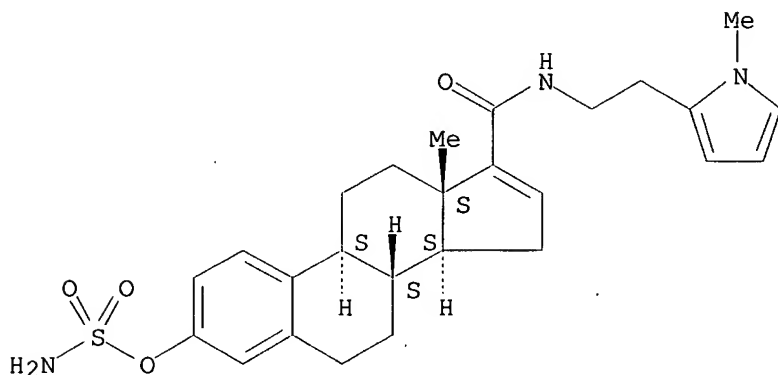
Absolute stereochemistry.



RN 370107-18-9 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(1-methyl-1H-pyrrol-2-yl)ethyl]- (9CI) (CA INDEX NAME)

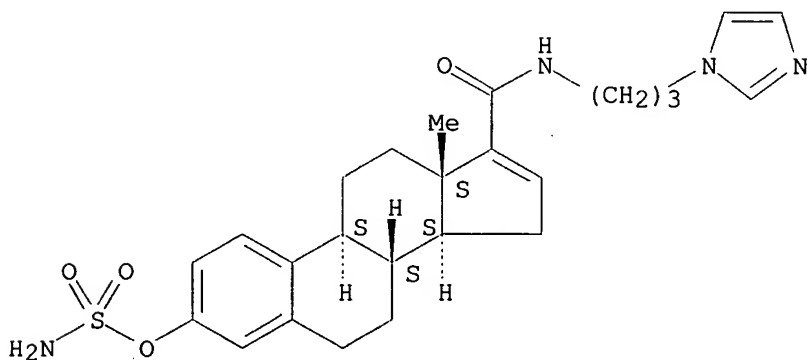
Absolute stereochemistry.



RN 370107-19-0 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[3-(1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)

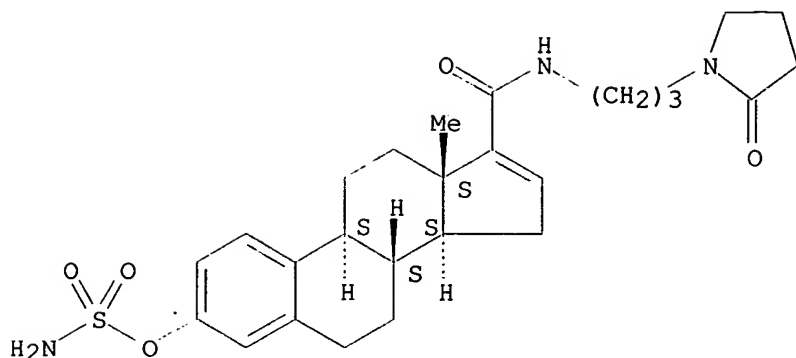
Absolute stereochemistry.



RN 370107-20-3 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[3-(2-oxo-1-pyrrolidinyl)propyl]- (9CI) (CA INDEX NAME)

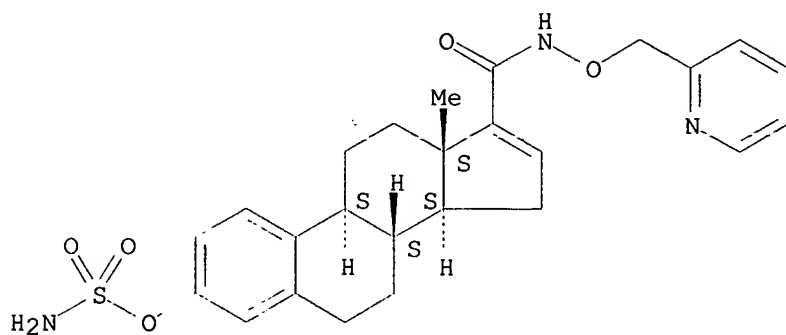
Absolute stereochemistry.



RN 370107-21-4 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-pyridinylmethoxy)- (9CI) (CA INDEX NAME)

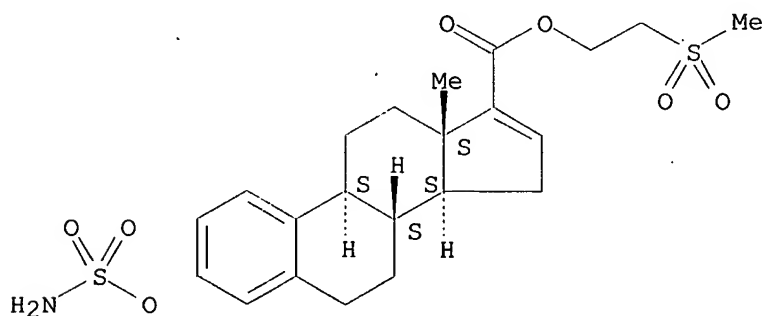
Absolute stereochemistry.



RN 370107-23-6 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME)

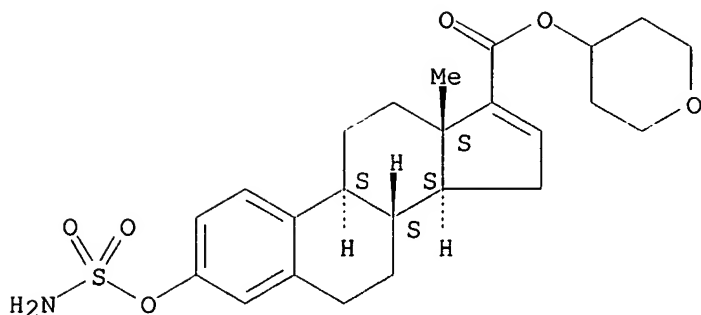
Absolute stereochemistry.



RN 370107-25-8 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, tetrahydro-2H-pyran-4-yl ester (9CI) (CA INDEX NAME)

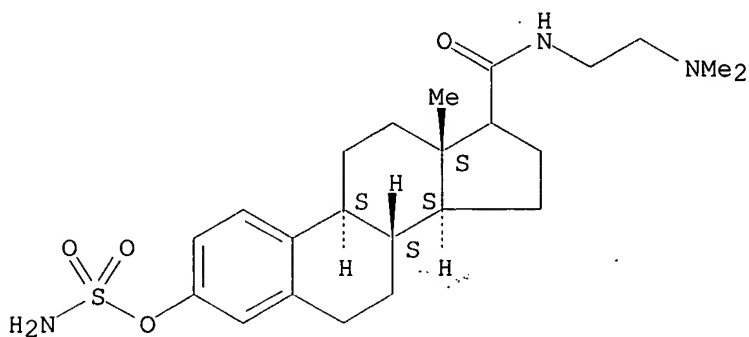
Absolute stereochemistry.



RN 370107-27-0 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

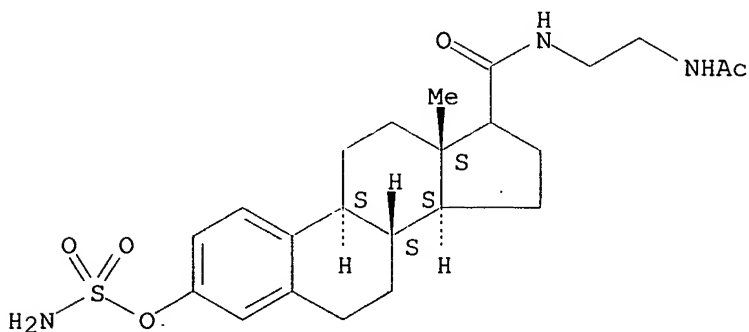
Absolute stereochemistry.



RN 370107-28-1 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, N-[2-(acetylamino)ethyl]-3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

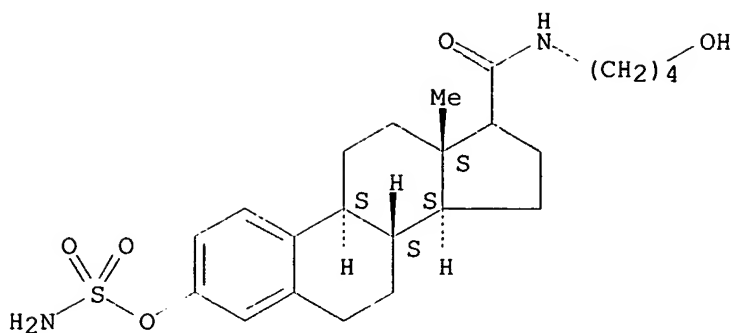
Absolute stereochemistry.



RN 370107-30-5 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(4-hydroxybutyl)- (9CI) (CA INDEX NAME)

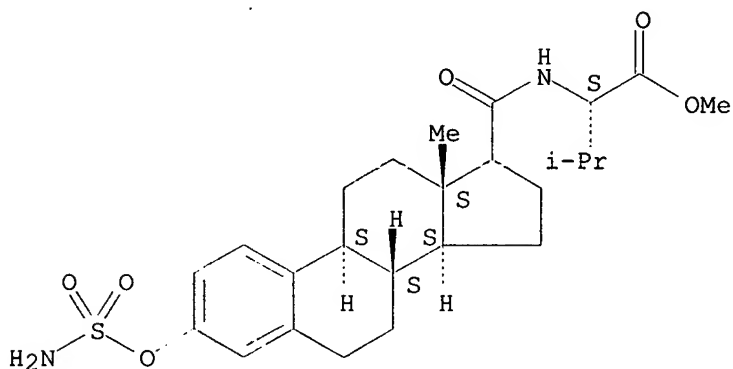
Absolute stereochemistry.



RN 370107-31-6 CAPLUS

CN L-Valine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10)-trien-17-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

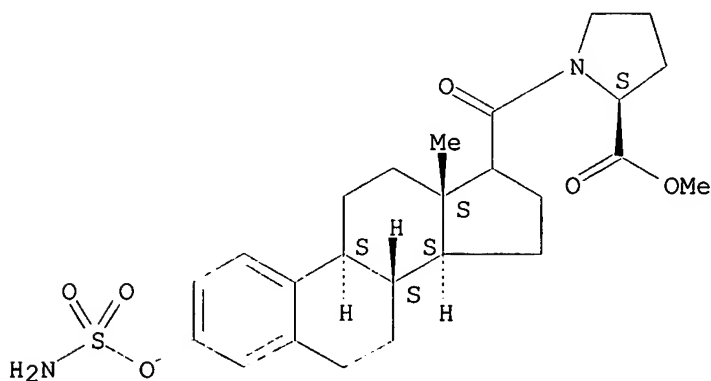
Absolute stereochemistry.



RN 370107-32-7 CAPLUS

CN L-Proline, 1-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10)-trien-17-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

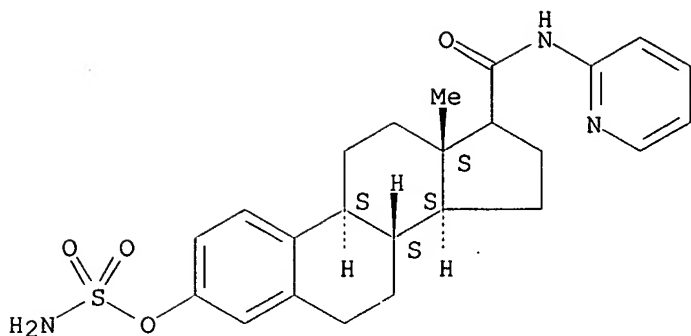
Absolute stereochemistry.



RN 370107-33-8 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-2-pyridinyl- (9CI) (CA INDEX NAME)

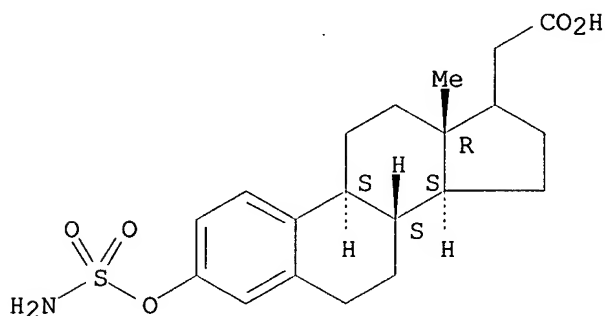
Absolute stereochemistry.



RN 370107-35-0 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-21-oic acid, 3-[(aminosulfonyl)oxy]-, (17.xi.)- (9CI) (CA INDEX NAME)

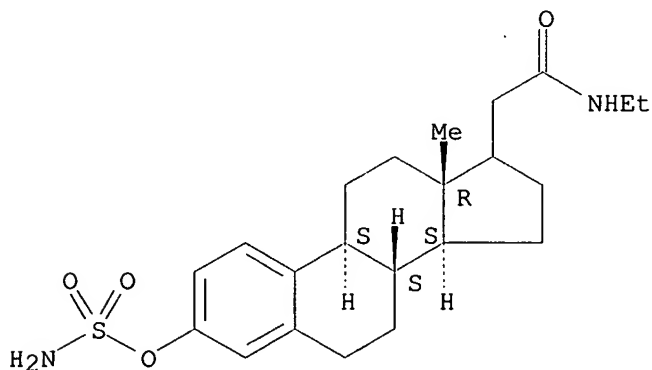
Absolute stereochemistry.



RN 370107-37-2 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-21-amide, 3-[(aminosulfonyl)oxy]-N-ethyl-, (17.xi.)- (9CI) (CA INDEX NAME)

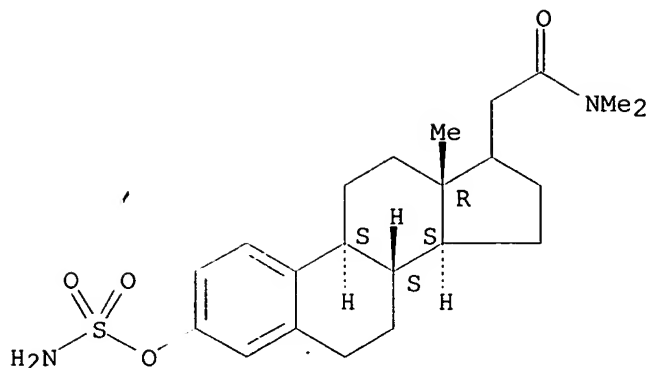
Absolute stereochemistry.



RN 370107-39-4 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-21-amide, 3-[(aminosulfonyl)oxy]-N,N-dimethyl-, (17.xi.)- (9CI) (CA INDEX NAME)

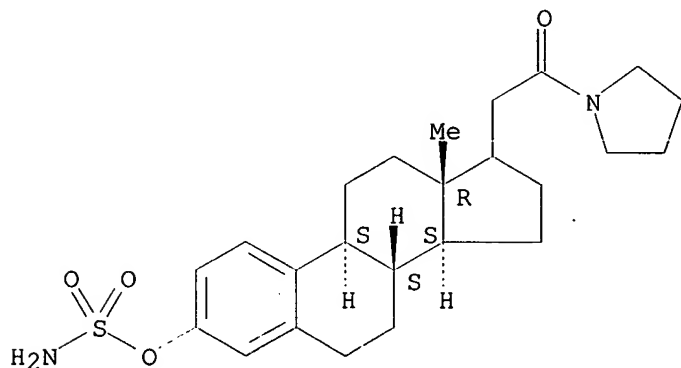
Absolute stereochemistry.



RN 370107-40-7 CAPLUS

CN Sulfamic acid, (17.xi.)-21-oxo-21-(1-pyrrolidinyl)-19-norpregna-1,3,5(10)-trien-3-yl ester (9CI) (CA INDEX NAME)

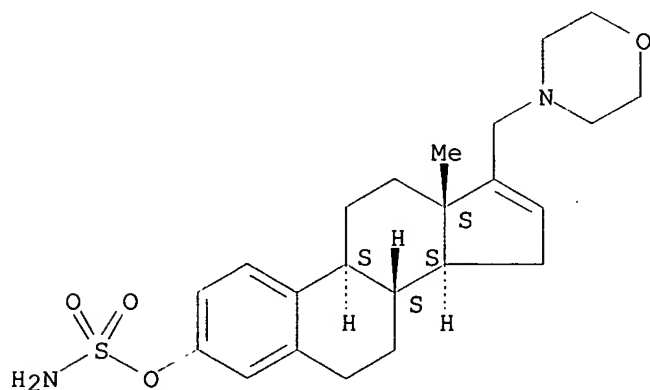
Absolute stereochemistry.



RN 370107-42-9 CAPLUS

CN Estra-1,3,5(10),16-tetraen-3-ol, 17-(4-morpholinylmethyl)-, sulfamate (ester) (9CI) (CA INDEX NAME)

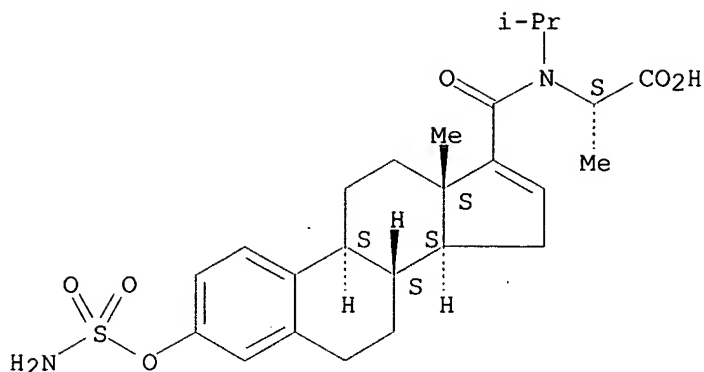
Absolute stereochemistry.



RN 370107-48-5 CAPLUS

CN L-Alanine, N-[[3-[(aminosulfonyl)oxy]estra-1,3,5(10),16-tetraen-17-yl]carbonyl]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:763027 CAPLUS

DOCUMENT NUMBER: 135:318608

TITLE: Preparation of 8.beta.-hydrocarbyl-substituted estratrienes for use as selective estrogens

INVENTOR(S): Peters, Olaf; Hillisch, Alexander; Thieme, Ina; Elger, Walter; Hegele-Hartung, Christa; Kollenkirchen, Uwe; Fritzemeier, Karl-Heinrich; Patchev, Vladimir

PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 90 pp.

CODEN: PIXXD2

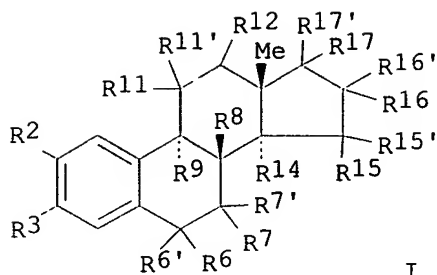
DOCUMENT TYPE: Patent

LANGUAGE: German

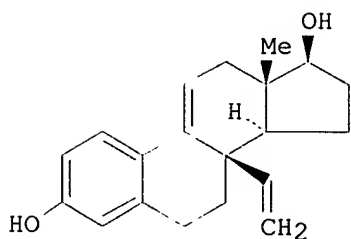
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

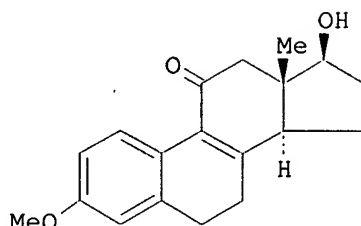
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077139	A1	20011018	WO 2001-EP4290	20010412
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10019167	A1	20011018	DE 2000-10019167	20000412
PRIORITY APPLN. INFO.:			DE 2000-10019167 A	20000412
			US 2000-207370P P	20000526
OTHER SOURCE(S):			MARPAT 135:318608	
GI				



I



II



III

AB The invention relates to novel 8.beta.-substituted estratrienes I [R2 = H, halogen, straight or branched (un)satd. C1-6-alkyl, alkoxy, CF3, sulfonamide; R3 = alkoxy, sulfonamide, acyloxy; R6, R7 = H; R6R7 = bond; R6', R7' = H, halogen, alkoxy, sulfonamide; R8 = a straight- or branched-chained, optionally partially or completely halogenated C1-5-alkyl, alkenyl, ethynyl, prop-1-ynyl; R9 = H, straight or branched (un)satd. C1-5-alkyl; R9R11 = bond; R11 = H; R11R12 = bond; R11' = H, halogen, a straight- or branched-chained, optionally partially or completely fluoro- or chloro-C1-4-alkyl, alkoxy, alkylthio; R12 = H; R14 = H; R14R15 = bond; R15 = H; R15R16 = bond; R15', R16' = H, halogen, alkoxy, sulfonamid; R16 = H; R17, R17' = H, H and halogen, H and OCH2Ph, H and sulfonamide, alkyl and acyl or acyloxy, alkoxy and alkyl, alkoxy and acyloxy; R17R17' = :CH2, :CR24R25; R24, R25 = halogen; R24R25 = O]. Thus, vinylestradiol II was prepd. from estra-1,3,5(10)-tetraenone III in 8 steps. The inventive estratrienes are used as pharmaceutically active substances that have in vitro a higher affinity to estrogen receptor preps. of rat prostate than to estrogen receptor preps. of rat uterus and which in vivo preferably have a preferential effect on bone material as compared to uterus and/or a pronounced effect with respect to the stimulation of the expression of 5HT2a receptor and transporter. II showed a relative binding affinity for the estrogen receptor of 1 in rat uterus and of 83 in rat prostate. The invention further relates to the prodn. of these novel compds., to their use in therapy and to the pharmaceutical forms of administration that contain said novel compds. The invention further describes the use of said compds. for treating estrogen-deficiency related diseases and conditions and to the use of an 8.beta.-substituted estratriene structural part in the overall structures of compds. that are characterized by a disson. in favor of their estrogen effect on the bone as compared to the uterus.

IT 367264-79-7P 367929-18-8P 367929-20-2P
367929-23-5P 367929-24-6P

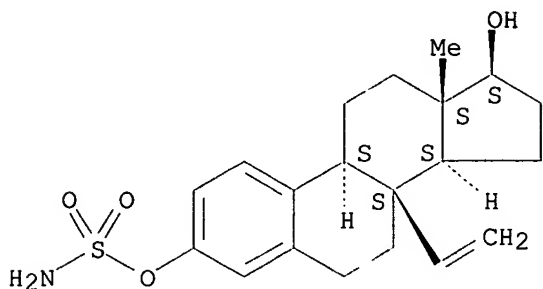
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 8.beta.-hydrocarbyl-substituted estratrienes for use as selective estrogens)

RN 367264-79-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 8-ethenyl-, 3-sulfamate, (17.beta.)-(9CI) (CA INDEX NAME)

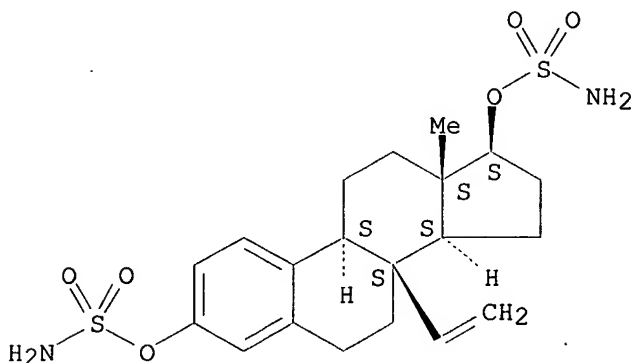
Absolute stereochemistry.



RN 367929-18-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 8-ethenyl-, disulfamate, (17.beta.)-(9CI) (CA INDEX NAME)

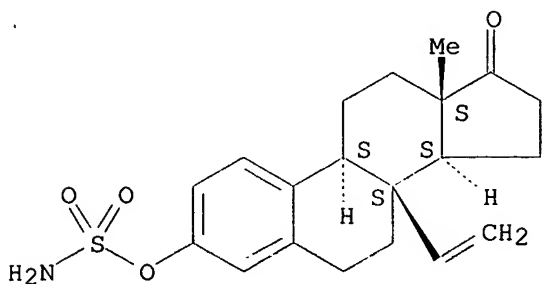
Absolute stereochemistry.



RN 367929-20-2 CAPLUS

CN Estra-1,3,5(10)-triene-17-one, 3-[(aminosulfonyl)oxy]-8-ethenyl- (9CI) (CA INDEX NAME)

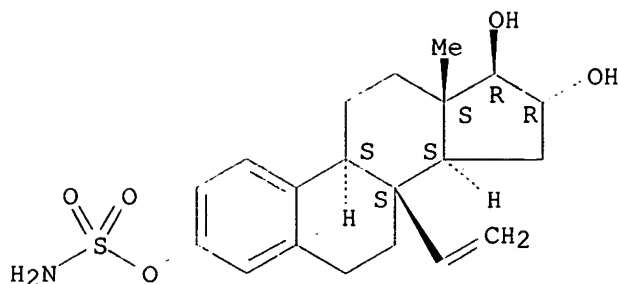
Absolute stereochemistry.



RN 367929-23-5 CAPLUS

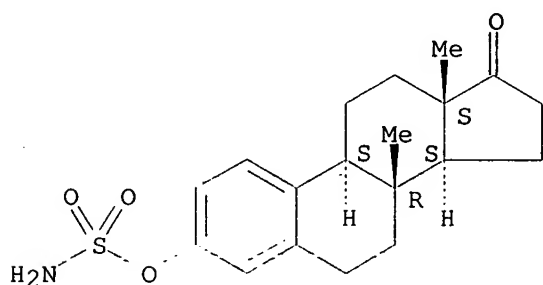
CN Estra-1,3,5(10)-triene-3,16,17-triol, 8-ethenyl-, 3-sulfamate, (16.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 367929-24-6 CAPLUS
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-8-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:746742 CAPLUS

DOCUMENT NUMBER: 136:151338

TITLE: Synthesis and **steroid sulfatase inhibitory** activity of C19- and C21-steroidal derivatives bearing a benzyl-**inhibiting** group

AUTHOR(S): Ciobanu, L. C.; Boivin, R. P.; Luu-The, V.; Poirier, D.

CORPORATE SOURCE: Medicinal Chemistry Division, Oncology and Molecular Endocrinology Research Center, Centre Hospitalier Universitaire de Quebec (CHUQ), Sainte-Foy, QC, G1V 4G2, Can.

SOURCE: European Journal of Medicinal Chemistry (2001), 36(7-8), 659-671

CODEN: EJMCA5; ISSN: 0223-5234

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two series of compds., benzyl alkylated at position 17.alpha. and 20 of androstane and pregnane, resp., were synthesized and tested for steroid sulfatase inhibition. We compared the ability of the compds. to inhibit steroid sulfatase obtained from two different sources (homogenates of transfected HEK-293 cells and Jeg-3 cells) and with two types of substrate (DHEAS or E1S). The inhibitory activity of 17.alpha.-benzyl-5.alpha.-androstane-3.beta.,17.beta.-diol (I), 17.alpha.-benzyl-5-androstene-3.beta.,17.beta.-diol (II), 17.alpha.-benzyl-4,17.beta.-dihydroxy-4-androsten-3-one (III) and 20-benzyl-5-pregnene-3.beta.,20.alpha.-diol (IV) has proven to be superior to that of danazol, the first steroid sulfatase inhibitor to be reported, but still lower than that of the potent

inhibitor estrone-3-O-sulfamate. The inhibitory activity of I was as potent as that of its previously reported estrane analog, 17.alpha.-benzyl estradiol. Benzyl alkylated compds. with no OH group on the A-ring (with a 4-OCH₃, 4-Cl, or 4-H and their precursor epoxides), as well as a series of basic steroids without a benzyl group (ADT, epi-ADT, 3.alpha.-diol, 3.beta.-diol, DHEA, .DELTA.5-diol, DHT, T, Preg and Prog), did not show steroid sulfatase inhibition. We have thus demonstrated that the steroid sulfatase inhibitory effect of a benzyl group, previously obsd. for an estrane nucleus, can be extended to certain androstane and pregnane nuclei bearing a 3.beta.-OH or a 4-OH group. Inhibitors I-IV, did not induce any proliferative effect on androgen-sensitive Shionogi cells. However, when tested on estrogen-sensitive ZR-75-1 cells, a proliferative effect was obsd. for I and II, but not for III and IV.

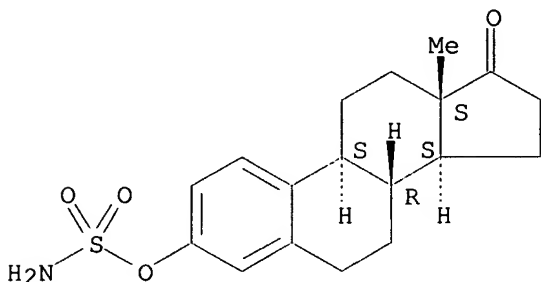
IT 148672-09-7, Estrone-3-O-sulfamate

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(as inhibitors of steroid sulfatase activity)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(prepn. of androstane and pregnane derivs.as inhibitors of steroid sulfatase activity and breast cancer inhibitors)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 11 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:668347 CAPLUS

DOCUMENT NUMBER: 135:226790

TITLE: Preparation of aryl sulfamates for the treatment of estrogen-dependent illnesses

INVENTOR(S): Li, Pui-kai; Selcer, Kyle W.

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA

SOURCE: U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 164,889.

CODEN: USXXAM

DOCUMENT TYPE: Patent

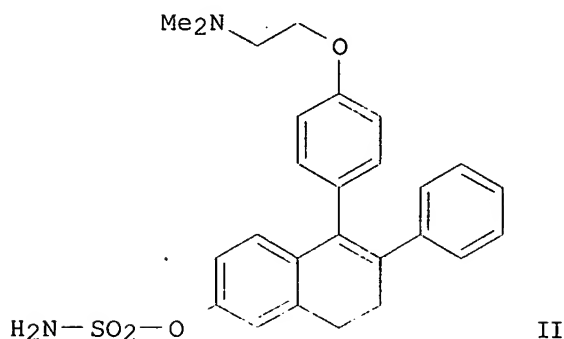
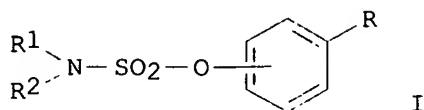
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6288107 B1 20010911 US 2000-536331 20000324
 US 6248780 B1 20010619 US 1998-164889 19981001
 PRIORITY APPLN. INFO.: US 1998-164889 A2 19981001
 OTHER SOURCE(S): MARPAT 135:226790
 GI



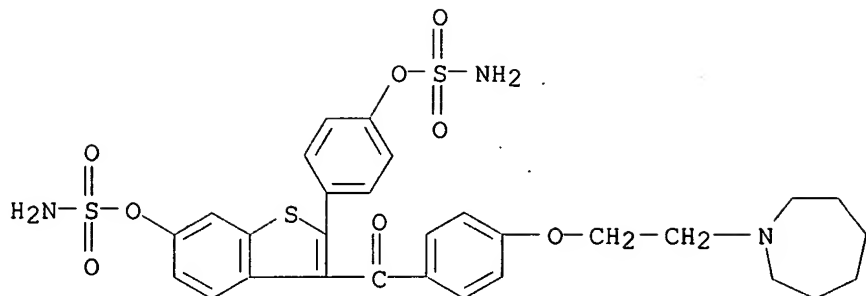
AB Sulfatase inhibitor/estrogen receptor blocker compds. (I) [wherein R = estrogen receptor blocker; R1 and R2 = independently H or alkyl] useful in the treatment of estrogen-dependent illnesses, such as breast cancer, vaginal cancer, **endometrial** cancer, ovarian cancer, and **endometriosis**, are disclosed. Prepn. and testing of 7,8-dihydro-5,6-diphenylnaphthalen-2-yl sulfamates and (Z)-4-hydroxytamoxifen sulfamate are described, and 3-benzoyl-2-phenylbenzothiophen-6-yl sulfamates (no prepn.) are claimed. Thus, 1-bromo-4-[2-(tributylsiloxy)ethoxy]benzene was treated with BuLi and then coupled with 6-(tetrahydropyranyloxy)tetralone (prepn. of reactants given) to afford the protected dihydronaphthalene (65.7%). Deprotection and bromination using pyridinium tribromide (90.3%), followed by arylation with PhLi (94%), iodination (95%), amination with NHMe2 (88.3%), and reaction with sulfamoyl chloride (91.6%), gave II. In a sulfatase activity assay, II inhibited estrone sulfatase in rat liver microsomes at 20 .mu.M substrate estrone sulfate by over 60% compared to the control.

IT 359686-84-3P 359686-92-3P 359687-02-8P
 359687-08-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of aryl sulfamates for treatment of estrogen-dependent illnesses)

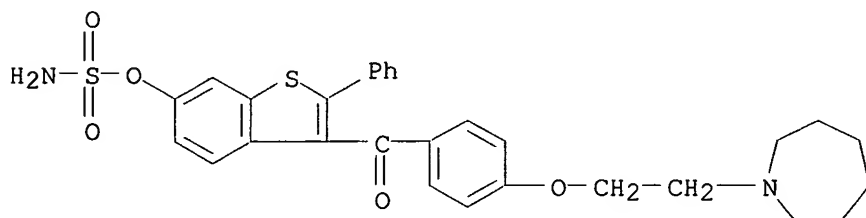
RN 359686-84-3 CAPLUS

CN Sulfamic acid, 4-[6-[(aminosulfonyl)oxy]-3-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]benzoyl]benzo[b]thien-2-yl]phenyl ester (9CI) (CA INDEX NAME)



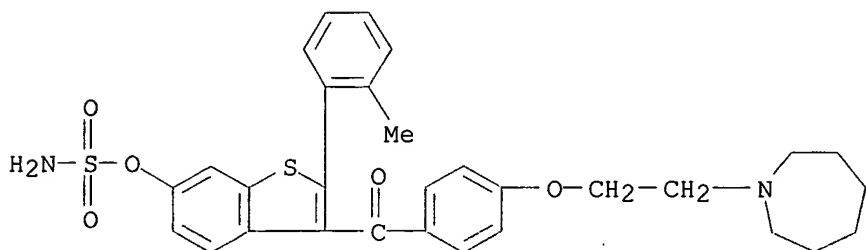
RN 359686-92-3 CAPLUS

CN Sulfamic acid, 3-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]benzoyl]-2-phenylbenzo[b]thien-6-yl ester (9CI) (CA INDEX NAME)



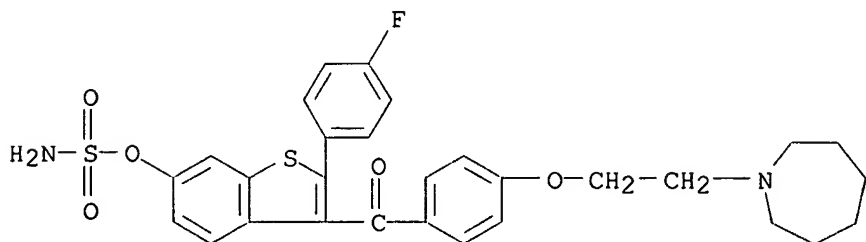
RN 359687-02-8 CAPLUS

CN Sulfamic acid, 3-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]benzoyl]-2-(2-methylphenyl)benzo[b]thien-6-yl ester (9CI) (CA INDEX NAME)



RN 359687-08-4 CAPLUS

CN Sulfamic acid, 2-(4-fluorophenyl)-3-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]benzoyl]benzo[b]thien-6-yl ester (9CI) (CA INDEX NAME)

IT 221214-41-1P 359686-00-3P 359686-04-7P
359686-09-2P 359686-14-9P 359686-20-7P

359686-27-4P 359686-33-2P 359686-37-6P

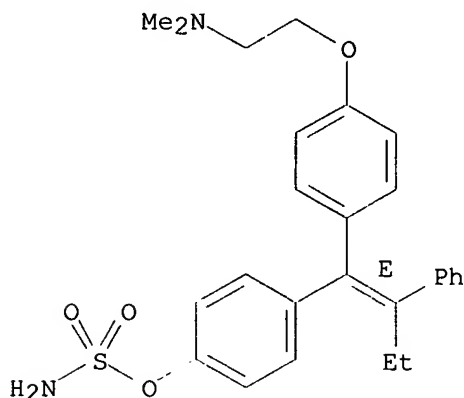
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(prepn. of aryl sulfamates for treatment of estrogen-dependent
illnesses)

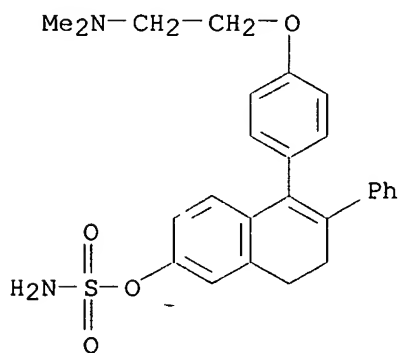
RN 221214-41-1 CAPLUS

CN Sulfamic acid, 4-[(1E)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-
butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

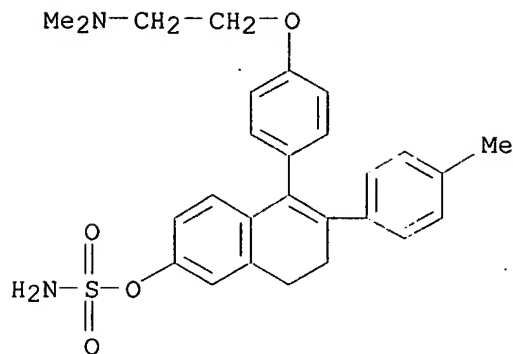


RN 359686-00-3 CAPLUS

CN Sulfamic acid, 5-[4-[2-(dimethylamino)ethoxy]phenyl]-7,8-dihydro-6-phenyl-
2-naphthalenyl ester (9CI) (CA INDEX NAME)

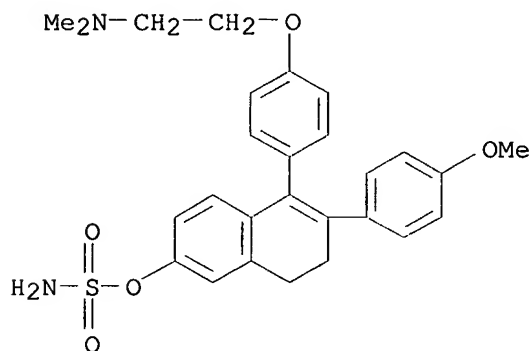
RN 359686-04-7 CAPLUS

CN Sulfamic acid, 5-[4-[2-(dimethylamino)ethoxy]phenyl]-7,8-dihydro-6-(4-
methylphenyl)-2-naphthalenyl ester (9CI) (CA INDEX NAME)



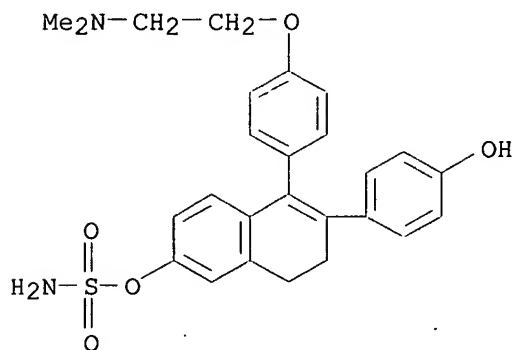
RN 359686-09-2 CAPLUS

CN Sulfamic acid, 5-[4-[2-(dimethylamino)ethoxy]phenyl]-7,8-dihydro-6-(4-methoxyphenyl)-2-naphthalenyl ester (9CI) (CA INDEX NAME)



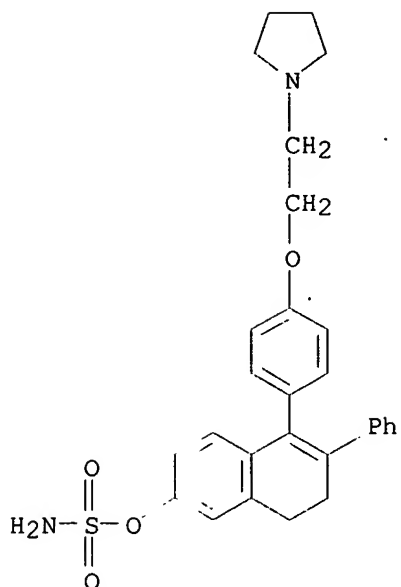
RN 359686-14-9 CAPLUS

CN Sulfamic acid, 5-[4-[2-(dimethylamino)ethoxy]phenyl]-7,8-dihydro-6-(4-hydroxyphenyl)-2-naphthalenyl ester (9CI) (CA INDEX NAME)



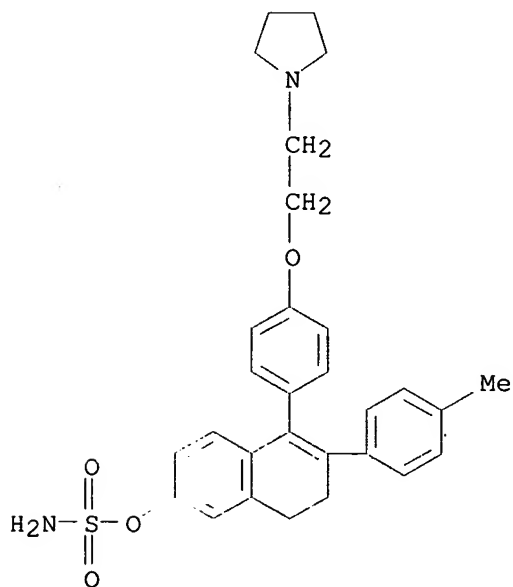
RN 359686-20-7 CAPLUS

CN Sulfamic acid, 7,8-dihydro-6-phenyl-5-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)



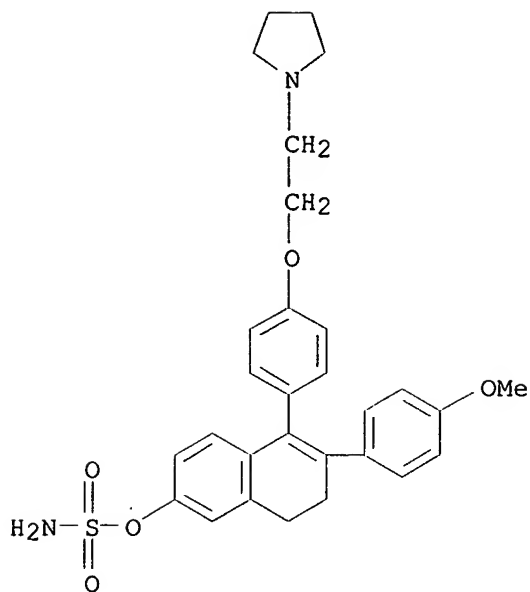
RN 359686-27-4 CAPLUS

CN Sulfamic acid, 7,8-dihydro-6-(4-methylphenyl)-5-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)

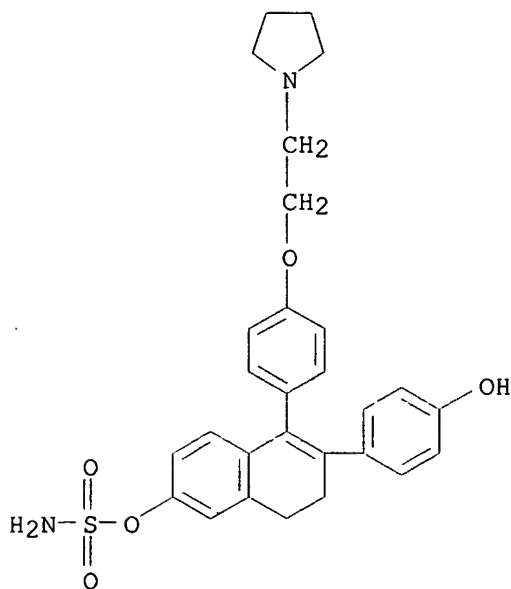


RN 359686-33-2 CAPLUS

CN Sulfamic acid, 7,8-dihydro-6-(4-methoxyphenyl)-5-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)



RN 359686-37-6 CAPLUS
CN Sulfamic acid, 7,8-dihydro-6-(4-hydroxyphenyl)-5-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:668343 CAPLUS

DOCUMENT NUMBER: 135:227145

TITLE: Preparation of estrane derivatives as **steroid sulfatase inhibitors**

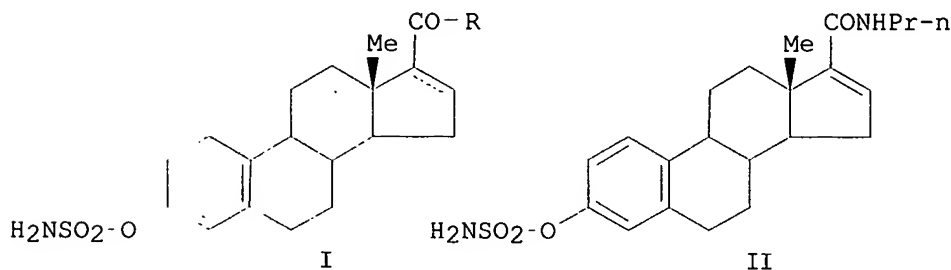
INVENTOR(S): Li, Pui-kai; Murakata, Chikara; Akinaga, Shiro

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA; Kyowa Hakko Kogyo Co., Ltd.

Searched by Barb O'Bryen, STIC 308-4291

SOURCE: U.S., 18 pp., Cont.-in-part of U.S. 5,880,115.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6288050	B1	20010911	US 1999-236842	19990125
US 5880115	A	19990309	US 1997-897247	19970718
WO 2000043408	A2	20000727	WO 2000-US1723	20000124
WO 2000043408	A3	20001130		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1147124	A2	20011024	EP 2000-904516	20000124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000008437	A	20011030	BR 2000-8437	20000124
US 6376687	B1	20020423	US 2000-490302	20000124
NO 2001003632	A	20010903	NO 2001-3632	20010724
PRIORITY APPLN. INFO.:			US 1997-897247	A2 19970718
			US 1999-236842	A 19990125
			WO 2000-US1723	W 20000124
OTHER SOURCE(S):			MARPAT 135:227145	
GI				

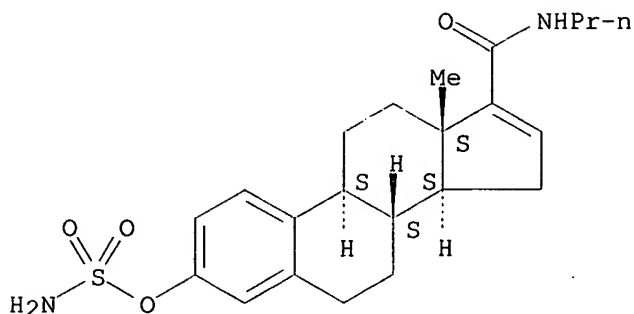


AB Sulfatase inhibitor compds. of formula I [R = (substituted) NH₂, alkoxy], comprising a steroid nucleus substituted at the C17 position, are prepd. and are useful in the treatment of estrogen dependent illnesses. Thus, II was prepd. from estrone, and showed estrone sulfatase inhibitory activity (IC₅₀ = 5 nM).

IT **284045-25-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of estrane derivs. as **steroid sulfatase inhibitors**)

RN 284045-25-6 CAPLUS
CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-propyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



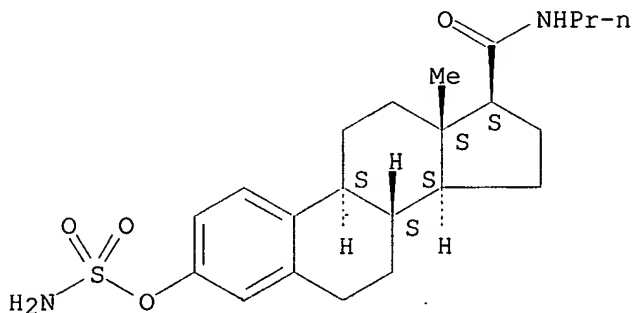
IT 284045-26-7P 284045-29-0P 284045-33-6P
284045-39-2P 284045-41-6P 284045-54-1P
284045-58-5P 284045-59-6P 284045-65-4P
284045-66-5P 284045-67-6P 284045-68-7P
358985-32-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of estrane derivs. as **steroid sulfatase inhibitors**)

RN 284045-26-7 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-propyl-, (17.beta.)- (9CI) (CA INDEX NAME)

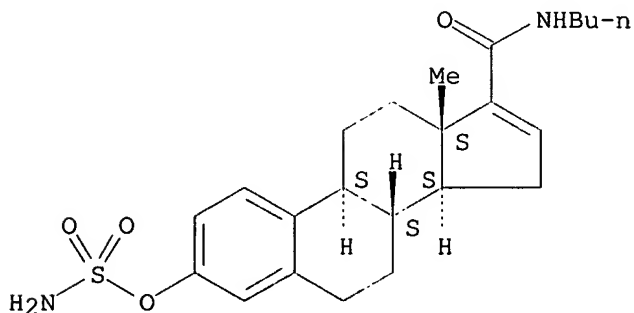
Absolute stereochemistry.



RN 284045-29-0 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-butyl-, (9CI) (CA INDEX NAME)

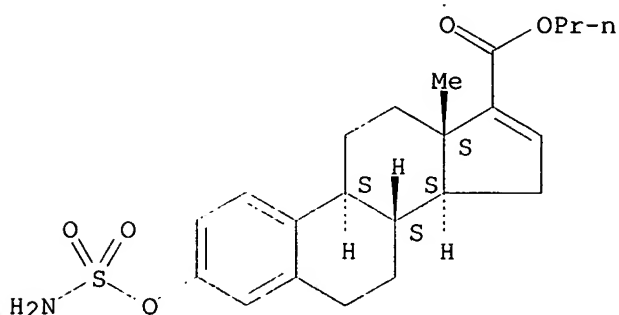
Absolute stereochemistry.



RN 284045-33-6 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, propyl ester (9CI) (CA INDEX NAME)

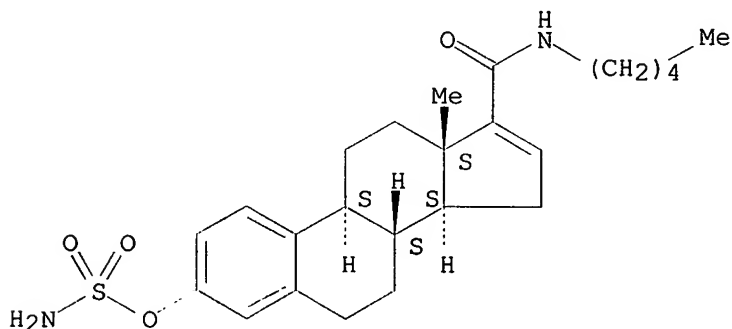
Absolute stereochemistry.



RN 284045-39-2 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-pentyl- (9CI) (CA INDEX NAME)

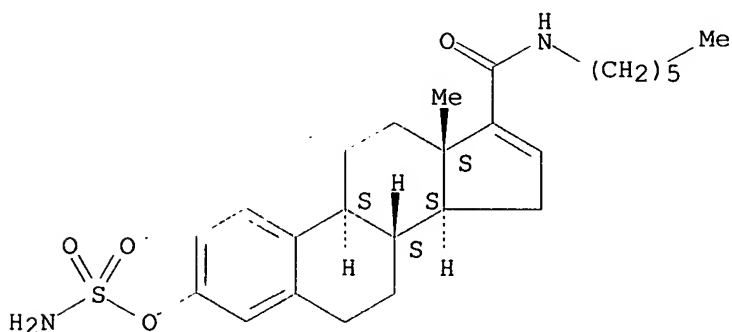
Absolute stereochemistry.



RN 284045-41-6 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-hexyl- (9CI) (CA INDEX NAME)

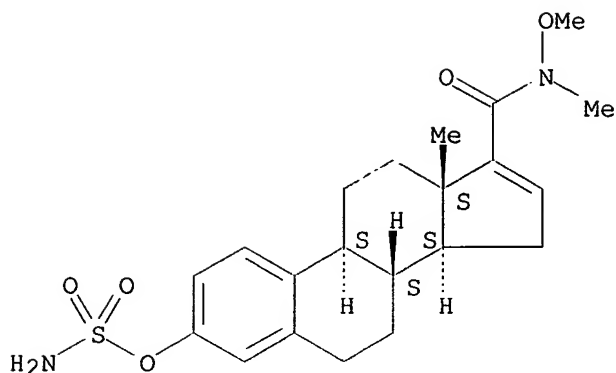
Absolute stereochemistry.



RN 284045-54-1 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-methoxy-N-methyl- (9CI) (CA INDEX NAME)

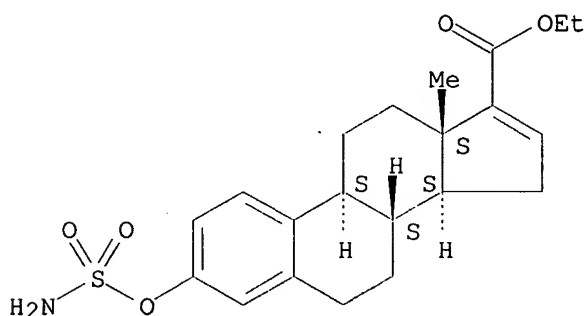
Absolute stereochemistry.



RN 284045-58-5 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, ethyl ester (9CI) (CA INDEX NAME)

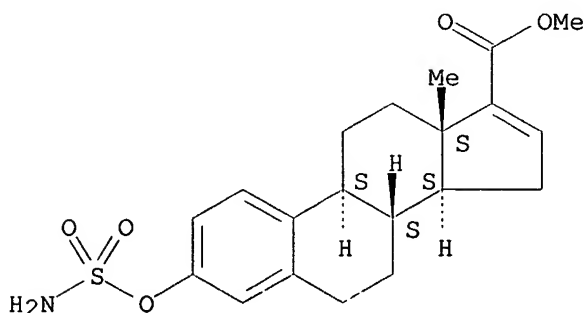
Absolute stereochemistry.



RN 284045-59-6 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

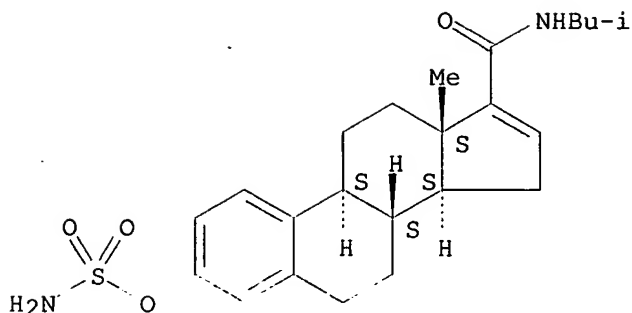
Absolute stereochemistry.



RN 284045-65-4 CAPLUS

CN Estradiol-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)

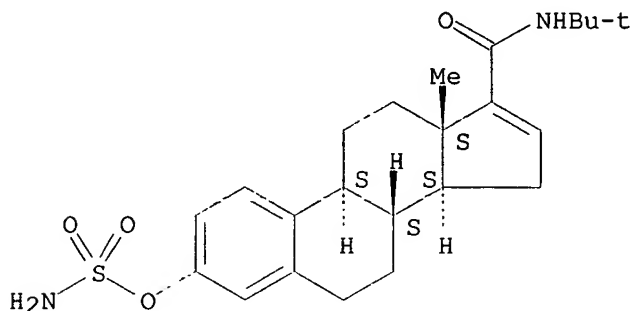
Absolute stereochemistry.



RN 284045-66-5 CAPLUS

CN Estradiol 17-isobutyrate 3-sulfamate, 3-[(aminosulfonyl)oxy]-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

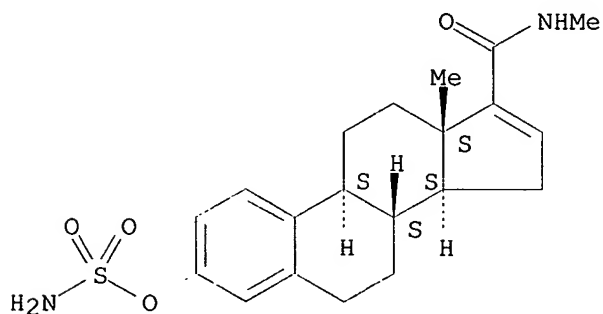
Absolute stereochemistry.



RN 284045-67-6 CAPLUS

CN Estradiol 17-tert-butyrate 3-sulfamate, 3-[(aminosulfonyl)oxy]-N-methyl- (9CI) (CA INDEX NAME)

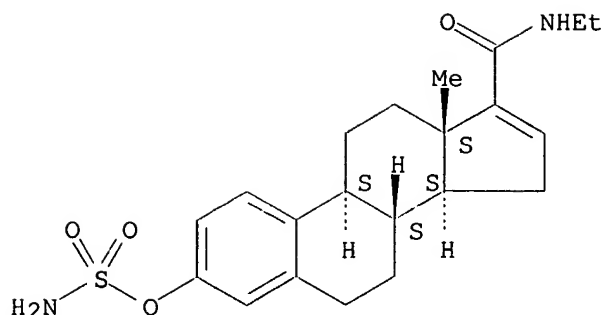
Absolute stereochemistry.



RN 284045-68-7 CAPLUS

CN Estradiol 17-methylcarbamate 3-sulfamate, 3-[(aminosulfonyl)oxy]-N-ethyl- (9CI) (CA INDEX NAME)

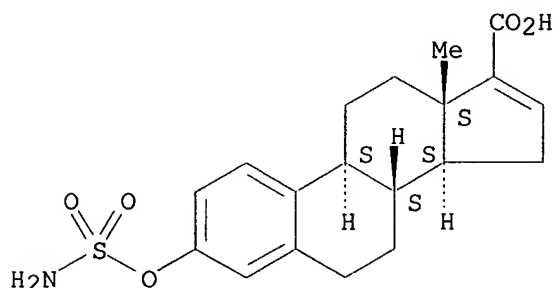
Absolute stereochemistry.



RN 358985-32-7 CAPLUS

CN Estrone-1,3,5(10),16-tetraene-17-carboxylic acid, 3-[(aminosulfonyl)oxy]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 9025-62-1, Steroid sulfatase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(prepn. of estrane derivs. as **steroid sulfatase**
inhibitors)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:594290 CAPLUS

DOCUMENT NUMBER: 135:179731

TITLE: Usage of **steroid sulfatase**
inhibitors in combination with antigens for
tolerance induction

INVENTOR(S): Wickens, Thomas

PATENT ASSIGNEE(S): Bionetworks G.m.b.H., Germany

SOURCE: Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10005643	A1	20010816	DE 2000-10005643	20000209

AB The invention concerns combinations for the induction of immune tolerance

by using steroid sulfate inhibitors along with antigens. Steroid sulfatase inhibitors are arylsulfamates, estrone sulfamates, coumarin sulfamates, flavonoids and antisense nucleotides to the nucleic acids coding for steroid sulfatase. Antigens are selected from natural and synthetic peptides, altered peptide ligands (APLs), polysaccharides, lipopolysaccharides, nucleic acids coding for the antigen, bystander antigens. Antigens assocd. with rheumatoid arthritis, multiple sclerosis, uveitis, diabetes mellitus type I, lupus erythematoses and infectious diseases are involved. Thus immune tolerance to MBP (myelin basic protein) or MOG (myelin oligodendrocyte glycoprotein) antigens was induced in rats by nasal or oral administration of APL. Steroid sulfate inhibitor was injected s.c. along with the APL. Autoimmune encephalitis was initiated by Mycobacterium tuberculosis injection; in case of the combination with steroid sulfatase inhibitor lower amts. of antigens were required and the disease was less severe.

IT 9025-62-1, Sulfatase, sterol

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(inhibitors; usage of **steroid sulfatase inhibitors** in combination with antigens for tolerance induction)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 136167-05-0 148672-09-7, Estrone-3-O-sulfamate

186303-55-9, p-O-Sulfamoyl N-tetradecanoyltyramine

196815-32-4 196815-35-7 208924-87-2

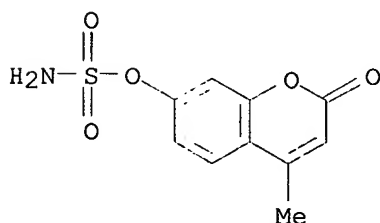
208924-88-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(usage of **steroid sulfatase inhibitors** in combination with antigens for tolerance induction)

RN 136167-05-0 CAPLUS

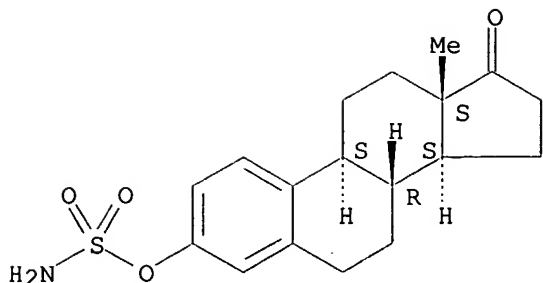
CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 148672-09-7 CAPLUS

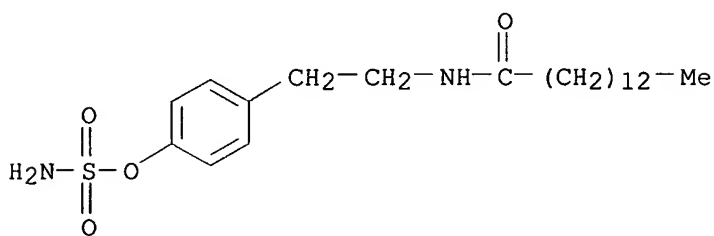
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



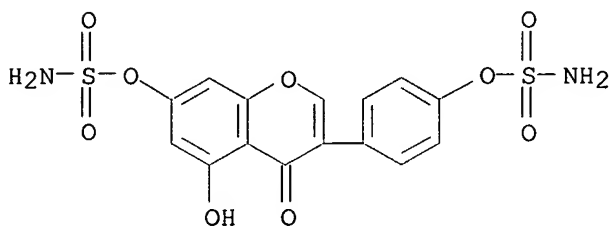
RN 186303-55-9 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxotetradecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



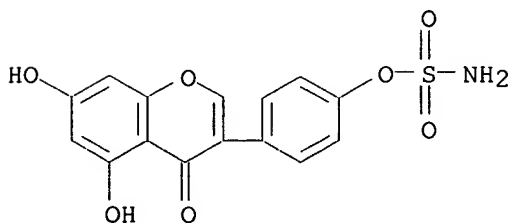
RN 196815-32-4 CAPLUS

CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-5-hydroxy-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 196815-35-7 CAPLUS

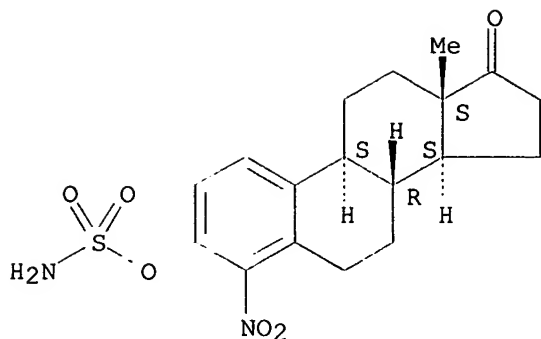
CN Sulfamic acid, 4-(5,7-hydroxy-4-oxo-4H-1-benzopyran-3-yl)phenyl ester (9CI) (CA INDEX NAME)



RN 208924-87-2 CAPLUS

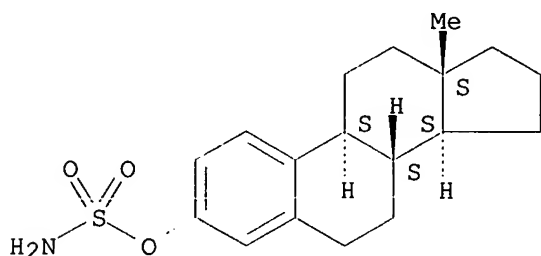
CN Estradiol 3-[(aminosulfonyl)oxy]-4-nitro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 208924-88-3 CAPLUS
 CN Estra-1,3,5(10)-trien-3-ol, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



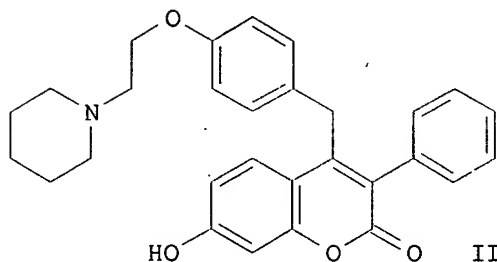
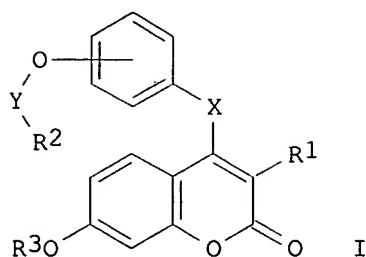
L54 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:507686 CAPLUS
 DOCUMENT NUMBER: 135:92545
 TITLE: Preparation of benzopyrans as modulators of estrogen receptors for pharmaceutical use
 INVENTOR(S): Bhagwat, Shripad S.; McKie, Jeffrey A.; Khammungkhune, Sak
 PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 73 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001049673	A2	20010712	WO 2000-US35671	20001229
WO 2001049673	A3	20011206		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6291456	B1	20010918	US 2000-492939	20000127
US 6331562	B1	20011218	US 2000-611156	20000706
PRIORITY APPLN. INFO.:			US 1999-475776	A 19991230

US 2000-492939 A 20000127
US 2000-611156 A 20000706
US 1998-114472P P 19981230
WO 1999-US31290 A2 19991230

OTHER SOURCE(S):
GI

MARPAT 135:92545



AB Benzopyrans, such as I [R1 = aryl, arylalkyl, heterocyclyl, heterocyclylalkyl; R2 = NR4R5, nitrogen contg. carbon bonded heterocyclyl; R3 = H, acyl, carboxy, carbamoyl, aminosulfonyl; R4, R5 = H, alkyl, aryl, heterocyclyl; NR4R5 = nitrogen bonded heterocyclyl; X = (CH2)p; Y = (CH2)n; p = 0, 1; n = 0 - 4], were prepd. for use as modulators of estrogen receptors for the treatment of estrogen-related conditions, including breast cancer, testicular cancer, osteoporosis, **endometriosis**, cardiovascular disease, hypercholesterolemia, prostatic hypertrophy, prostatic carcinomas, obesity, hot flashes, skin effects, mood swings, memory loss, urinary incontinence, hair loss, cataracts, natural hormonal imbalances, and adverse reproductive effects assocd. with exposure to environmental chems. Thus, benzopyran II was prepd. starting from 3-methoxyphenol and 4-hydroxyphenylacetic acid via cyclocondensation of 1-(2-hydroxy-4-methoxyphenyl)-2-[4-[[tris(1-methylethyl)silyl]oxy]phenyl]ethanone with phenylacetylchloride. The prepd. benzopyrans were tested for binding activity to estrogen receptors .alpha. and .beta., as well as for inhibition of human osteoblastic cells and proliferation of breast cancer cells and prostate carcinoma cells. Pharmaceutical formulations were discussed, and activity comparisons to known estrogen receptor modulators was presented.

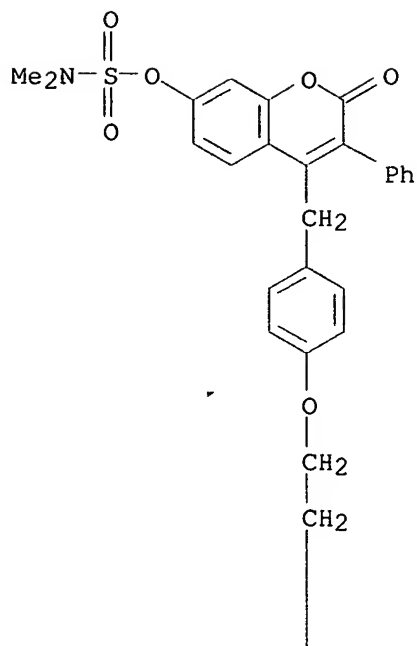
IT 280137-99-7P 280138-12-7P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzopyrans as modulators of estrogen receptors for pharmaceutical use)

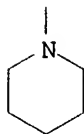
RN 280137-99-7 CAPLUS

CN Sulfamic acid, dimethyl-, 2-oxo-3-phenyl-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A

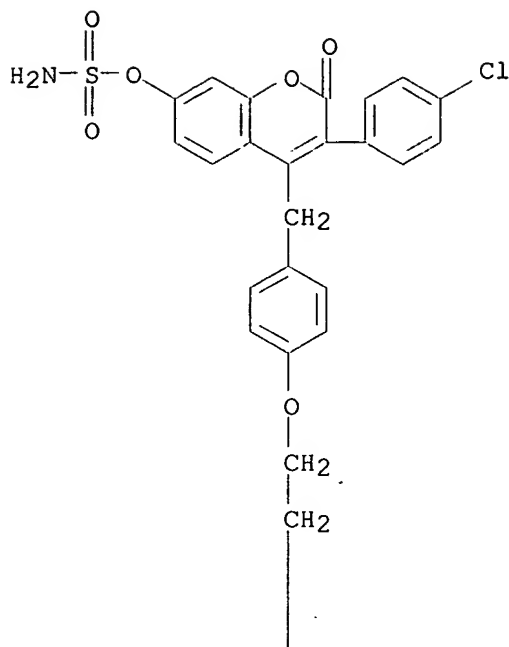


PAGE 2-A

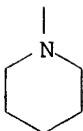


RN 280138-12-7 CAPLUS
CN Sulfamic acid, 3-(4-chlorophenyl)-2-oxo-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L54 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:472466 CAPLUS
DOCUMENT NUMBER: 135:97440
TITLE: Preparation and use of a drug composition containing
local anesthetics, anti-inflammatory agent and/or
immunostimulant
INVENTOR(S): Kasch, Helmut; Goldschmidt, Carsten
PATENT ASSIGNEE(S): ID Pharma G.m.b.H., Germany
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001045678	A2	20010628	WO 2000-EP13036	20001220
WO 2001045678	A3	20020411		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,

MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 1999-19961834 A 19991221

OTHER SOURCE(S): MARPAT 135:97440

AB The invention relates to a compn. which comprises as its constituents (a) a local anesthetic and (b) an anti-inflammatory compd. and/or an immunostimulant compd. and/or a compd. which acts as a supporting material for the local anesthetic. The components can be linked via a chem. bond forming carbamates or thiocarbamates. The compns. are use for the treatment of autoimmune diseases, inflammations, neurol. diseases, asthma, age-related diseases etc. Thus PAR 1 was prepd. by reacting PAR 2 with procaine hydrochloride in methylene chloride for 2 h at room temp. The product was chromatographed on silica gel and identified by ESI-MS. Its was used to screen various microorganisms; PAR 1 inhibited the growth of *Penicillium notatum*, *Glomerella cingulata* and *Kluyveromyces marxianus*.

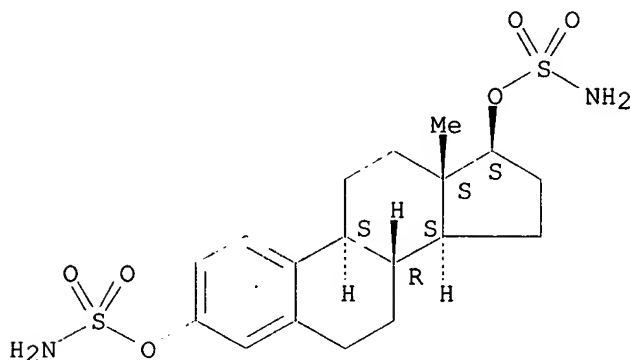
IT 213472-36-7 213472-40-3 213472-48-1
213472-50-5 213472-71-0

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prepn. and use of a drug compn. contg. local anesthetics,
anti-inflammatory agent and/or immunostimulant)

RN 213472-36-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, disulfamate (9CI) (CA INDEX NAME)

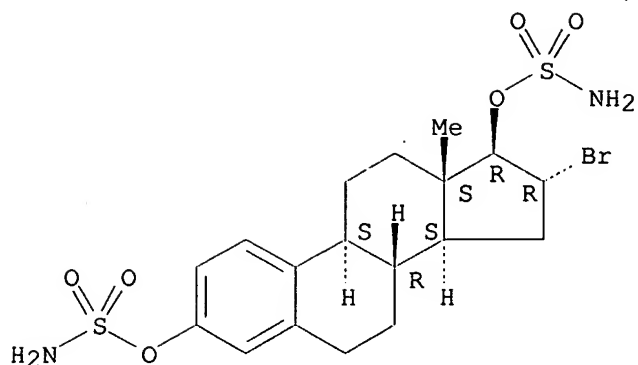
Absolute stereochemistry.



RN 213472-40-3 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 16-bromo-, disulfamate,
(16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

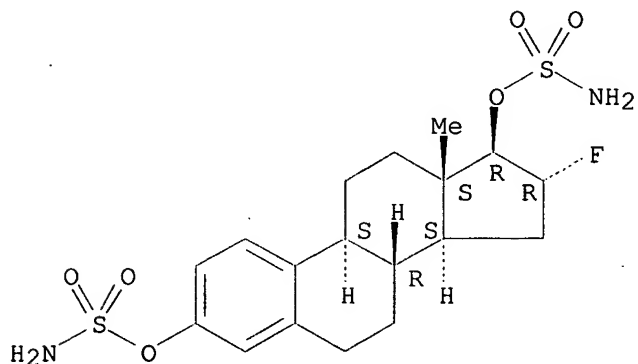
Absolute stereochemistry.



RN 213472-48-1 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 16-fluoro-, disulfamate,
(16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

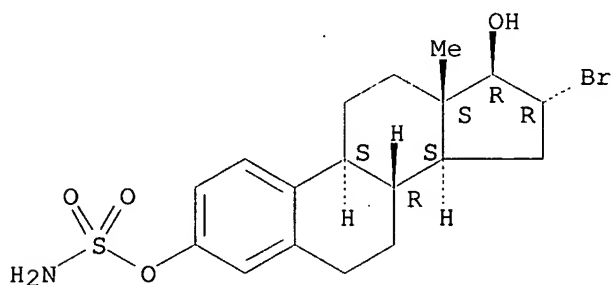
Absolute stereochemistry.



RN 213472-50-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 16-bromo-, 3-sulfamate,
(16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

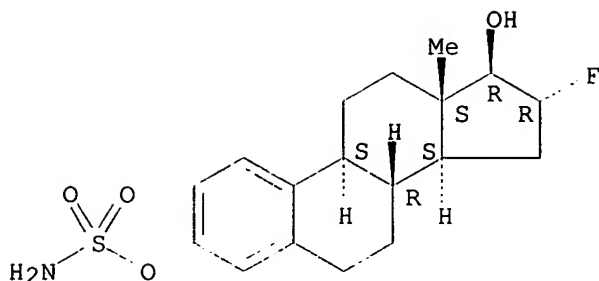
Absolute stereochemistry.



RN 213472-71-0 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 16-fluoro-, 3-sulfamate,
(16.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:380565 CAPLUS

DOCUMENT NUMBER: 134:366869

TITLE: Benzoxa- and benzthiazoles and their pharmaceutical compositions and use as **steroid sulfatase inhibitors**

INVENTOR(S): Billich, Andreas; Schreiner, Erwin Paul; Wolff-Winiski, Barbara

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

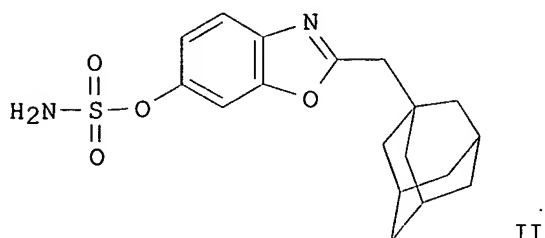
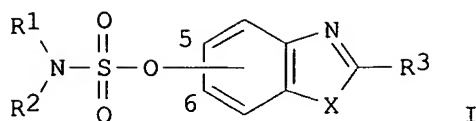
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001036398	A1	20010525	WO 2000-EP11475	20001117
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: GB 1999-27439 A 19991119
GB 2000-7511 A 20000328

OTHER SOURCE(S): MARPAT 134:366869

GI



AB Benzoxazoles and benzothiazoles which are inhibitors of steroid sulfatase are disclosed. In particular, benzoxazoles and benzothiazoles which are substituted at the 2 position, and which carry a sulfamic acid ester group bound via oxygen to the Ph part of the ring structure, are claimed. The compds. esp. include those of formula I [sulfamate ester bound at position 5 or 6 of benzoxazole ring; X = O, S; R1, R2 = H, alkyl; or one of R1 and R2 = H, and the other = acyl or alkoxycarbonyl; R3 = alk(en/yn)yl, cycloalk(en)yl, aryl, acyl, cycloalkyl(idene)(alk(en)yl), aralkyl, heteroaryl, etc.] in free or salt form. The compds. can be prepd. by sulfamoylation of corresponding compds. carrying a hydroxy group on the Ph part of the ring structure, or by N-substitution. They are indicated for use as steroid sulfatase inhibitors in the prevention and treatment of illnesses responsive to steroid sulfatase inhibition, such as acne, seborrhea, androgenic alopecia, hirsutism, estrogen- and androgen-dependent cancer, inflammatory or autoimmune diseases, skin disorders, or decreased cognitive function. Approx. 60 examples are given. For instance, (adamantan-1-yl)acetic acid was amidated with 2,4-dihydroxyaniline-HCl, and the resultant 2-(adamantan-1-yl)-N-(2,4-dihydroxyphenyl)acetamide was cyclized by Mitsunobu reaction to give 2-(adamantan-1-ylmethyl)benzoxazol-6-ol. Reaction of this with H2NSO2Cl in the presence of 2,6-di-tert-butyl-4-methylpyridine gave title compd. II. The analog of II with R3 = adamant-2-ylidenemethyl was deemed the most preferred agent of the invention. Compds. I had IC50 values comparable to those of estrone 3-O-sulfamate in two bioassays for inhibition of steroid sulfatase in vitro.

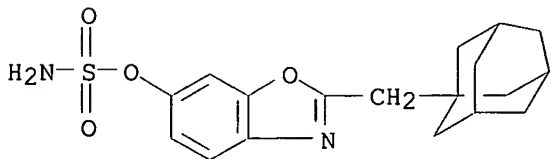
IT **340704-82-7P**, Sulfamic acid 2-(adamantan-1-ylmethyl)benzoxazol-6-yl ester **340704-83-8P**, Sulfamic acid 2-(2,2-dimethylpropyl)benzoxazol-6-yl ester **340704-84-9P**, Sulfamic acid 2-(adamantan-1-yl)benzoxazol-6-yl ester **340704-85-0P**, Sulfamic acid 2-tridecylbenzoxazol-6-yl ester **340704-86-1P**, Sulfamic acid 2-(2,2-diphenylethyl)benzoxazol-6-yl ester **340704-87-2P**, Sulfamic acid 2-(2,2,2-triphenylethyl)benzoxazol-6-yl ester **340704-88-3P**, Sulfamic acid 2-(dicyclohexylmethyl)benzoxazol-6-yl ester **340704-89-4P**, Sulfamic acid 2-[1-[(tert-butoxycarbonyl)amino]-2,2-dimethylpropyl]benzoxazol-6-yl ester **340704-90-7P**, Sulfamic acid 2-(hexahydro-2,5-methanopentalen-3a-yl)benzoxazol-6-yl ester **340704-92-9P**, Sulfamic acid 2-(tert-butyl)benzoxazol-6-yl ester **340704-93-0P**, Sulfamic acid 2-(adamantan-2-ylidenemethyl)benzoxazol-6-yl ester **340704-94-1P**, Sulfamic acid 2-(cyclohexylidenemethyl)benzoxazol-6-yl ester **340704-95-2P**, Sulfamic acid 2-(cyclobutylidenemethyl)benzoxazol-6-yl ester **340704-96-3P**, Sulfamic acid 2-(cyclopentylidenemethyl)benzoxazol-6-yl ester **340704-97-4P**,

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ester 340705-03-5P, (E)-Sulfamic acid 2-[(2-
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, Sulfamic acid 2-[(4-ethylcyclohexylidene)methyl]benzoxazol-6-yl ester
340705-05-7P, Sulfamic acid 2-[(3,3,5,5-
tetramethylcyclohexylidene)methyl]benzoxazol-6-yl ester
340705-06-8P, Sulfamic acid 2-(1,4-dioxaspiro[4.5]dec-8-
ylidenemethyl)benzoxazol-6-yl ester 340705-07-9P, Sulfamic acid
2-[(3,3-dimethyl-1,5-dioxaspiro[5.5]undec-9-ylidene)methyl]benzoxazol-6-yl
ester 340705-08-0P, Sulfamic acid 2-[(octahydronaphthalen-1-
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2-(2-butylhex-1-enyl)benzoxazol-6-yl ester 340705-10-4P,
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9-3P, (Z)-Sulfamic acid 2-(bicyclobutylidenemethyl)benzoxazol-
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Sulfamic acid 2-(cyclododecanylidenemethyl)benzoxazol-5-yl ester
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, Sulfamic acid 2-(adamantan-2-ylidenemethyl)benzothiazol-5-yl ester
340705-40-0P, Sulfamic acid 2-[1-(2-hydroxyadamantan-2-
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2-[1-(adamantan-2-ylidene)pentyl]benzoxazol-6-yl ester
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; prepn. of benzoxazoles and benzothiazoles as
steroid sulfatase inhibitors)

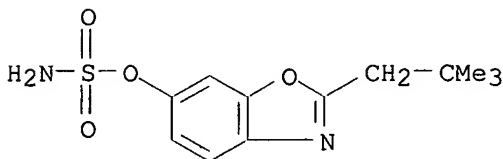
RN 340704-82-7 CAPLUS

CN Sulfamic acid, 2-(tricyclo[3.3.1.1^{3,7}]dec-1-ylmethyl)-6-benzoxazolyl ester
(9CI) (CA INDEX NAME)



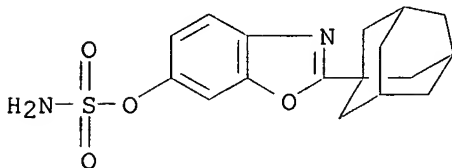
RN 340704-83-8 CAPLUS

CN Sulfamic acid, 2-(2,2-dimethylpropyl)-6-benzoxazolyl ester (9CI) (CA
INDEX NAME)



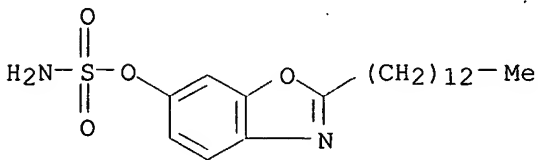
RN 340704-84-9 CAPLUS

CN Sulfamic acid, 2-tricyclo[3.3.1.1^{3,7}]dec-1-yl-6-benzoxazolyl ester (9CI)
(CA INDEX NAME)



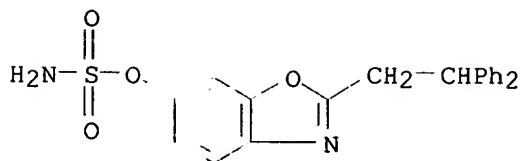
RN 340704-85-0 CAPLUS

CN Sulfamic acid, 2-tridecyl-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

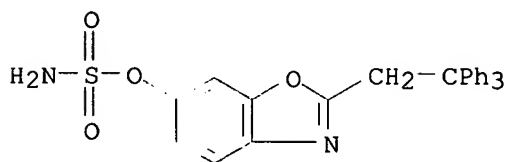


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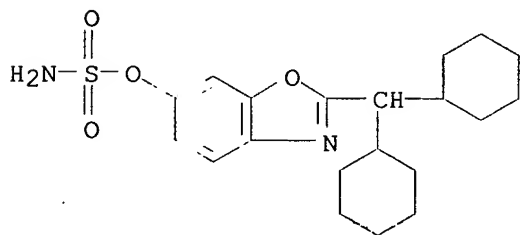
CN Sulfamic acid, 2-(2,2-diphenylethyl)-6-benzoxazolyl ester (9CI) (CA INDEX
NAME)



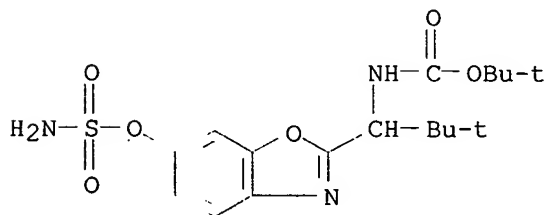
RN 340704-87-2 CAPLUS
 CN Sulfamic acid, 2-(2,2,2-triphenylethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



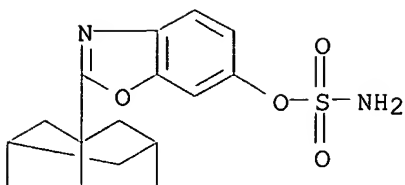
RN 340704-88-3 CAPLUS
 CN Sulfamic acid, 2-(dicyclohexylmethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340704-89-4 CAPLUS
 CN Carbamic acid, [1-[6-[(aminosulfonyl)oxy]-2-benzoxazolyl]-2,2-dimethylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

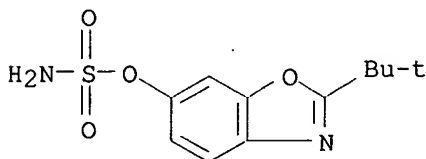


RN 340704-90-7 CAPLUS
 CN Sulfamic acid, 2-(hexahydro-2,5-methanopentalen-3a(1H)-yl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



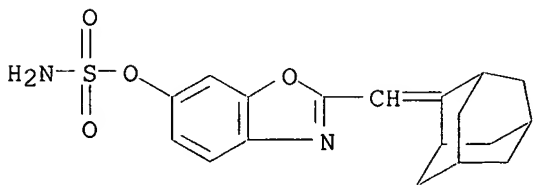
RN 340704-92-9 CAPLUS

CN Sulfamic acid, 2-(1,1-dimethylethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



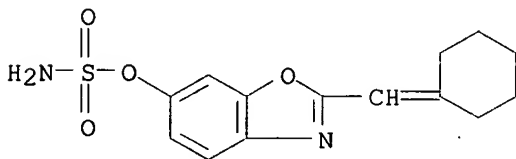
RN 340704-93-0 CAPLUS

CN Sulfamic acid, 2-(tricyclo[3.3.1.1.3,7]decylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



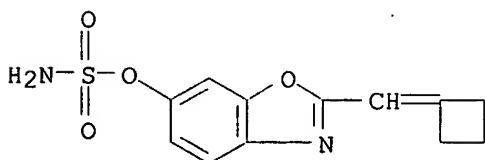
RN 340704-94-1 CAPLUS

CN Sulfamic acid, 2-(cyclohexylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

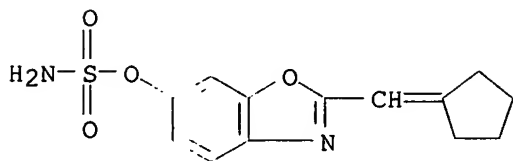


RN 340704-95-2 CAPLUS

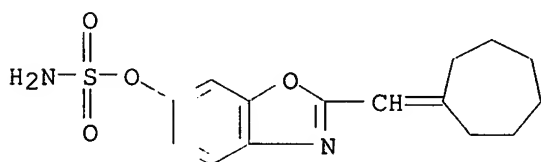
CN Sulfamic acid, 2-(cyclobutylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



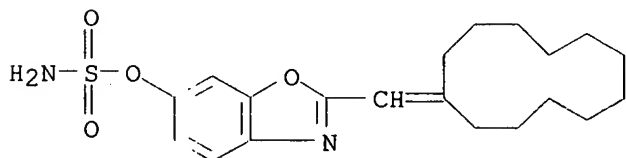
RN 340704-96-3 CAPLUS
CN Sulfamic acid, 2-(cyclopentylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340704-97-4 CAPLUS
CN Sulfamic acid, 2-(cycloheptylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



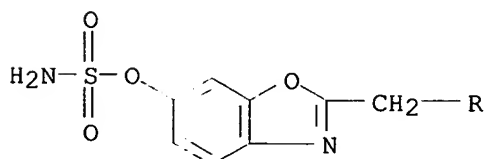
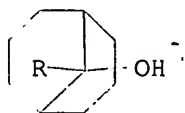
RN 340704-98-5 CAPLUS
CN Sulfamic acid, 2-(cyclododecylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340704-99-6 CAPLUS
CN Sulfamic acid, 2-(bicyclo[3.3.1]non-9-ylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

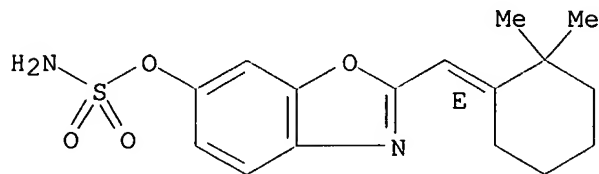
RN 340705-00-2 CAPLUS
CN Sulfamic acid, 2-[(9-hydroxybicyclo[3.3.1]non-9-yl)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-01-3 CAPLUS

CN Sulfamic acid, 2-[(E)-(2,2-dimethylcyclohexylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

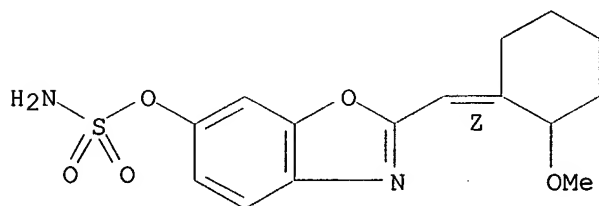
Double bond geometry as shown.



RN 340705-02-4 CAPLUS

CN Sulfamic acid, 2-[(Z)-(2-methoxycyclohexylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

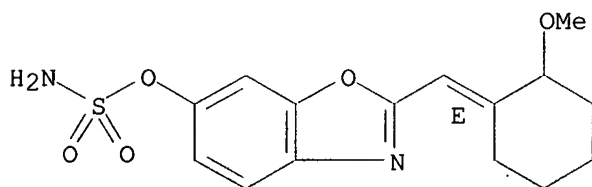
Double bond geometry as shown.



RN 340705-03-5 CAPLUS

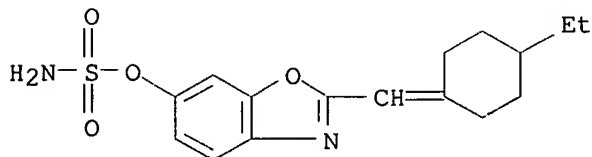
CN Sulfamic acid, 2-[(E)-(2-methoxycyclohexylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



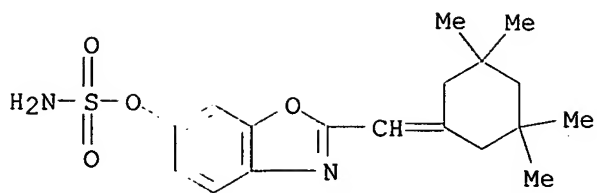
RN 340705-04-6 CAPLUS

CN Sulfamic acid, 2-[(4-ethylcyclohexylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



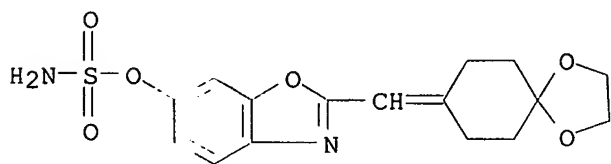
RN 340705-05-7 CAPLUS

CN Sulfamic acid, 2-[(3,3,5,5-tetramethylcyclohexylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



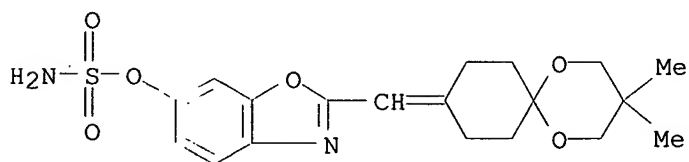
RN 340705-06-8 CAPLUS

CN Sulfamic acid, 2-(1,4-dioxaspiro[4.5]dec-8-ylidenemethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



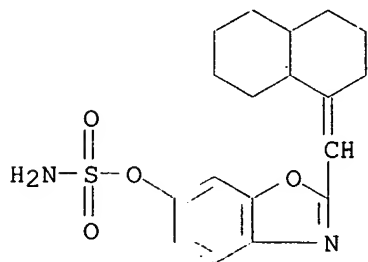
RN 340705-07-9 CAPLUS

CN Sulfamic acid, 2-[(3,3-dimethyl-1,5-dioxaspiro[5.5]undec-9-ylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



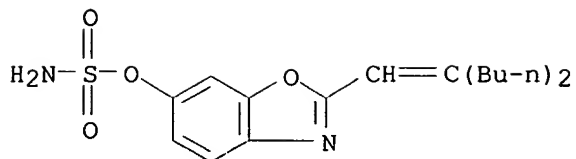
RN 340705-08-0 CAPLUS

CN Sulfamic acid, 2-[(octahydro-1(2H)-naphthalenylidene)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



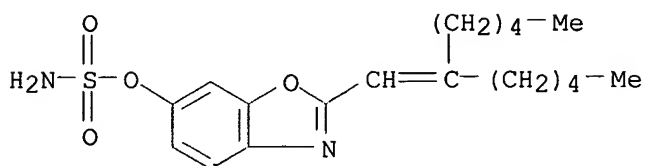
RN 340705-09-1 CAPLUS

CN Sulfamic acid, 2-(2-butyl-1-hexenyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



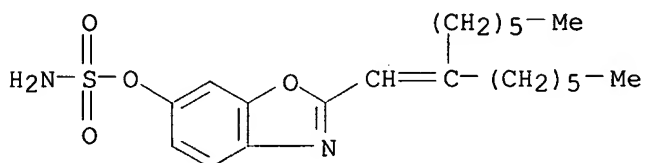
RN 340705-10-4 CAPLUS

CN Sulfamic acid, 2-(2-pentyl-1-heptenyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



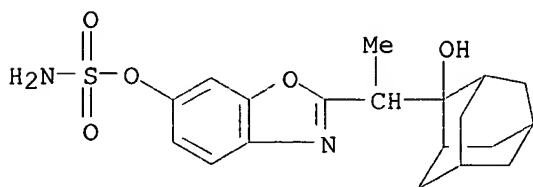
RN 340705-11-5 CAPLUS

CN Sulfamic acid, 2-(2-hexyl-1-octenyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



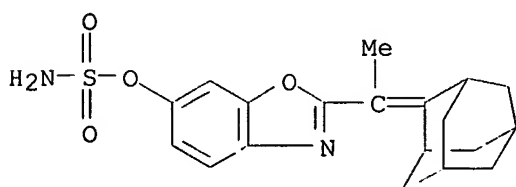
RN 340705-13-7 CAPLUS

CN Sulfamic acid, 2-(1-(2-hydroxytricyclo[3.3.1.1.3,7]dec-2-yl)ethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

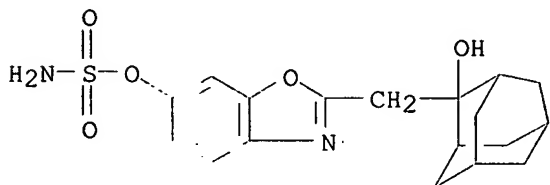


RN 340705-14-8 CAPLUS

CN Sulfamic acid, 2-(1-tricyclo[3.3.1.1.3,7]decylideneethyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

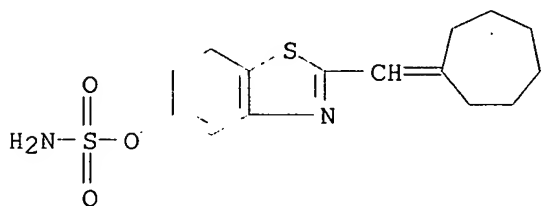


RN 340705-15-9 CAPLUS

CN Sulfamic acid, 2-[(2-hydroxytricyclo[3.3.1.1^{3,7}]dec-2-yl)methyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)

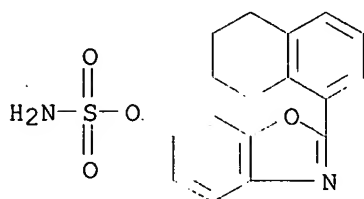
RN 340705-16-0 CAPLUS

CN Sulfamic acid, 2-(cycloheptylidene)methyl)-5-benzothiazolyl ester (9CI) (CA INDEX NAME)



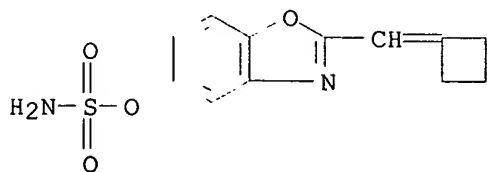
RN 340705-17-1 CAPLUS

CN Sulfamic acid, 2-(5,6,7,8-tetrahydro-1-naphthalenyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-18-2 CAPLUS

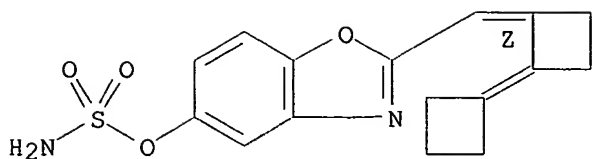
CN Sulfamic acid, 2-(cyclobutylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-19-3 CAPLUS

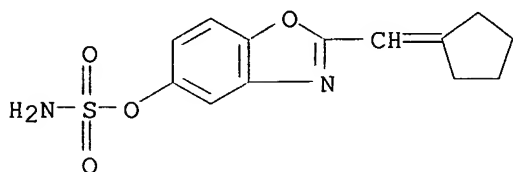
CN Sulfamic acid, 2-[(Z)-(2-cyclobutylidenecyclobutylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



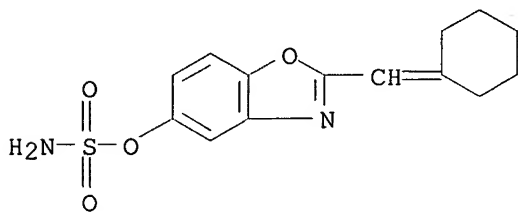
RN 340705-20-6 CAPLUS

CN Sulfamic acid, 2-(cyclopentylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



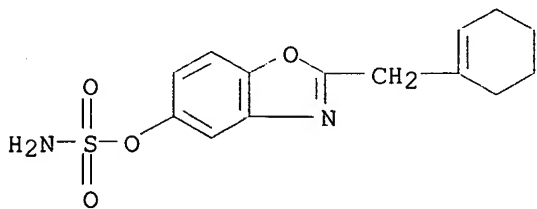
RN 340705-21-7 CAPLUS

CN Sulfamic acid, 2-(cyclohexylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



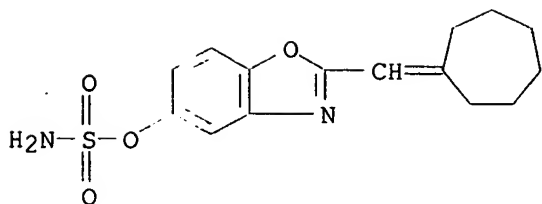
RN 340705-22-8 CAPLUS

CN Sulfamic acid, 2-(1-cyclohexen-1-ylmethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



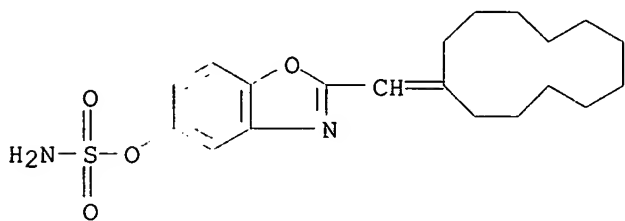
RN 340705-23-9 CAPLUS

CN Sulfamic acid, 2-(cycloheptylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-24-0 CAPLUS

CN Sulfamic acid, 2-(cyclododecylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



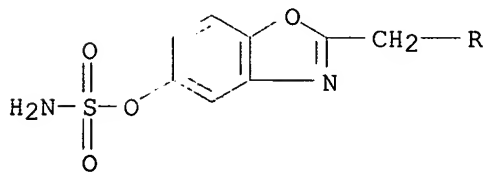
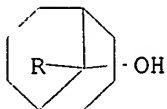
RN 340705-25-1 CAPLUS

CN Sulfamic acid, 2-(bicyclo[3.3.1]non-9-ylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

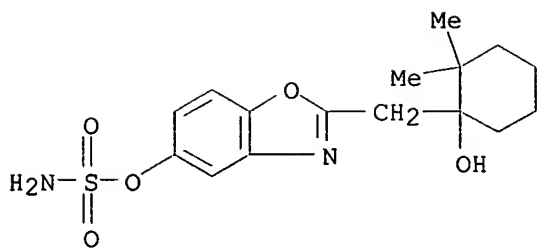
RN 340705-26-2 CAPLUS

CN Sulfamic acid, 2-[(9-hydroxybicyclo[3.3.1]non-9-yl)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



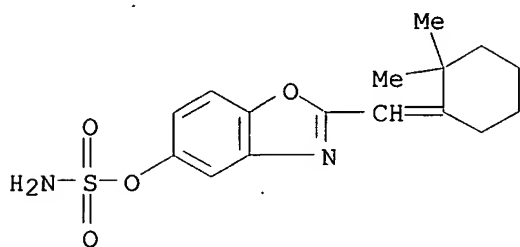
RN 340705-27-3 CAPLUS

CN Sulfamic acid, 2-[(1-hydroxy-2,2-dimethylcyclohexyl)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-28-4 CAPLUS

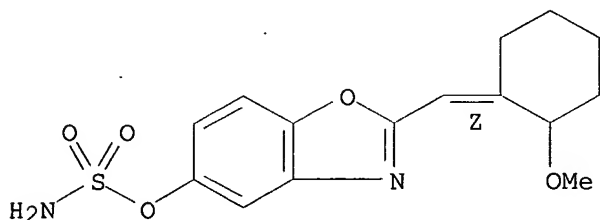
CN Sulfamic acid, 2-[(2,2-dimethylcyclohexylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-29-5 CAPLUS

CN Sulfamic acid, 2-[(Z)-(2-methoxycyclohexylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)

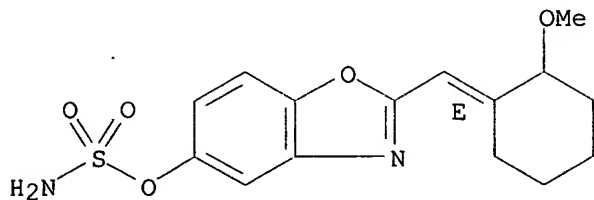
Double bond geometry as shown.



RN 340705-30-8 CAPLUS

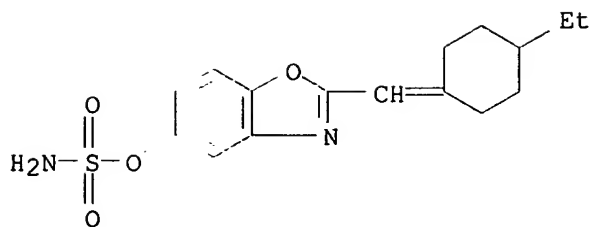
CN Sulfamic acid, 2-[(E)-(2-methoxycyclohexylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



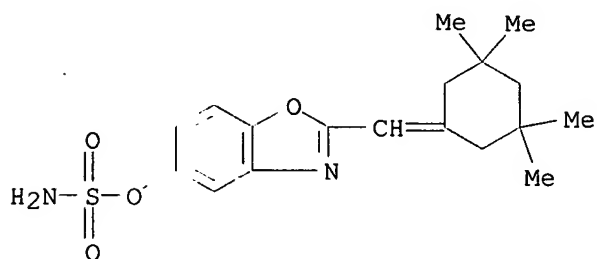
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CN Sulfamic acid, 2-[(4-ethylcyclohexylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



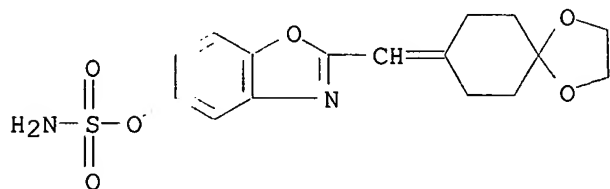
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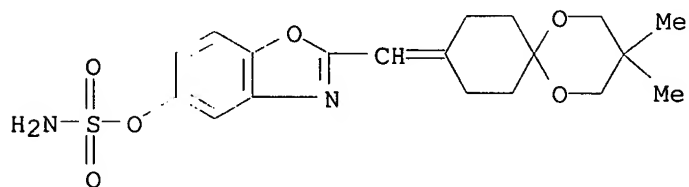
RN 340705-33-1 CAPLUS

CN Sulfamic acid, 2-(1,4-dioxaspiro[4.5]dec-8-ylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-34-2 CAPLUS

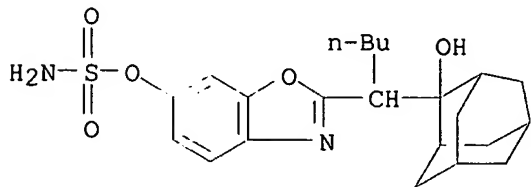
CN Sulfamic acid, 2-[(3,3-dimethyl-1,5-dioxaspiro[5.5]undec-9-ylidene)methyl]-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



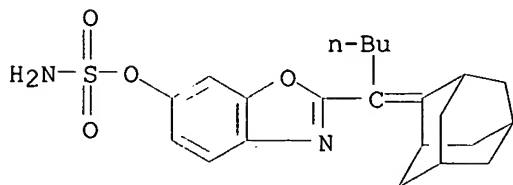
RN 340705-35-3 CAPLUS

CN Sulfamic acid, 2-(tricyclo[3.3.1.1.3,7]decylidenemethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)

RN 340705-40-0 CAPLUS
CN Sulfamic acid, 2-[1-(2-hydroxytricyclo[3.3.1.1^{3,7}]dec-2-yl)pentyl]-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



RN 340705-41-1 CAPLUS
CN Sulfamic acid, 2-(1-tricyclo[3.3.1.1^{3,7}]decylidenepentyl)-6-benzoxazolyl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, **Steroid sulfatase**
RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)
(inhibitors; prepn. of benzoxazoles and benzothiazoles as **steroid sulfatase inhibitors**)

RN 9025-62-1 CAPLUS
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:31456 CAPLUS

DOCUMENT NUMBER: 134:100645

TITLE: Preparation of phenyl sulfamate derivatives as **steroid sulfatase inhibitors**

INVENTOR(S): Koizumi, Naoyuki; Okada, Makoto; Iwashita, Shigeki; Takegawa, Shigehiro; Nakagawa, Takayoshi; Takahashi, Hiroo; Fujii, Tomohito

PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

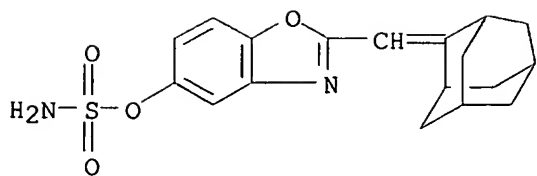
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

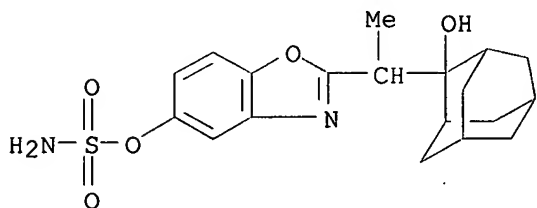
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002349	A1	20010111	WO 2000-JP4427	20000704
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				



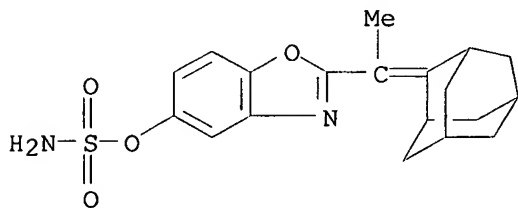
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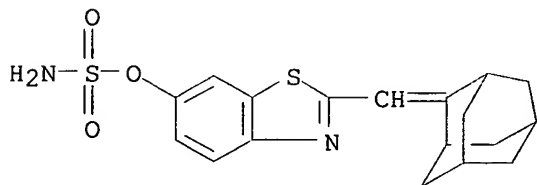
RN 340705-37-5 CAPLUS

CN Sulfamic acid, 2-(1-tricyclo[3.3.1.1.3,7]decylideneethyl)-5-benzoxazolyl ester (9CI) (CA INDEX NAME)



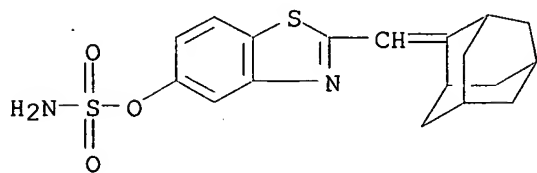
RN 340705-38-6 CAPLUS

CN Sulfamic acid, 2-(tricyclo[3.3.1.1.3,7]decylidenemethyl)-6-benzothiazolyl ester (9CI) (CA INDEX NAME)



RN 340705-39-7 CAPLUS

CN Sulfamic acid, 2-(tricyclo[3.3.1.1.3,7]decylidenemethyl)-5-benzothiazolyl ester (9CI) (CA INDEX NAME)



EP 1193250 A1 20020403 EP 2000-940936 20000704

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.:

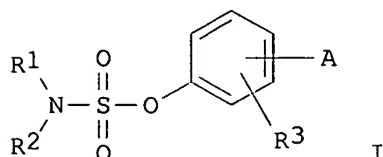
JP 1999-191632 A 19990706

WO 2000-JP4427 W 20000704

OTHER SOURCE(S):

MARPAT 134:100645

GI



AB Ph sulfamate derivs. of general formula (I) or salts thereof [wherein R1, R2 = H, lower alkyl; R3 = H, halo, lower alkyl, OSO2NR1R2, lower alkanoylamino, NO2, cyano; A = (un)substituted Ph, naphthyl, pyridyl, 2-substituted thiazol-4-yl, 3-substituted-isoxazol-5-yl, 1-cyano-2-(optionally substituted phenyl)vinyl, 3-cyano-2-(optionally substituted phenyl)vinyl, X-NR4R5 (wherein X = CO, CH2; R4 = H, lower alkyl, optionally substituted Ph, lower alkanoyl, optionally substituted phenylcarbonyl, heteroarylcarbonyl, lower alkylsulfonyl, SO2NH2, etc.; R5 = H, optionally substituted Ph or phenylcarbonyl; provisos are given); or R3 and A together with Ph group to which they are bonded represent fluoren-2-yl or 9-oxofluoren-2-yl; provided that when R3 = H, A .noteq. unsubstituted Ph] are prepd. These compds. exhibit an excellent steroid sulfatase inhibitory activity and being therefore effective in the prevention or treatment of diseases related to steroids including estrogen, e.g., mammary carcinoma, carcinoma of uterine body, **endometrial hyperplasia**, sterility, **endometriosis**, adenomyosis of uterus, autoimmune diseases, dementia, **Alzheimer**'s disease and so on. Thus, 108 mg 2'-biphenyl-4-ol was dissolved in DMF and stirred with under ice-cooling for 10 min, treated with 367 mg sulfamoyl chloride, and stirred at room temp. for 3 h to give 2'-nitrobiphenyl-4-yl sulfamate (II). II and 2'-cyano-4'-nitrobiphenyl-4-yl sulfamate at 0.5 mg/kg p.o. in rats inhibited steroid sulfatase by 91.2 and 99.5%, resp., in liver and 94.9 and 100%, resp., in uterus.

IT 319014-55-6P, 2'-Nitrobiphenyl-4-yl sulfamate 319014-56-7P, 4'-Hydroxy-2-cyanobiphenyl-4-yl sulfamate 319014-57-8P, 2'-Fluorobiphenyl-4-yl sulfamate 319014-59-0P, 2'-(Trifluoromethyl)biphenyl-4-yl sulfamate 319014-60-3P, 2'-Methylbiphenyl-4-yl sulfamate 319014-61-4P, Biphenyl-2,4'-diyl disulfamate 319014-62-5P, 2'-Cyanomethylbiphenyl-4-yl sulfamate 319014-63-6P, 3'-Fluorobiphenyl-4-yl sulfamate 319014-64-7P, 3'-Nitrobiphenyl-4-yl sulfamate 319014-65-8P, 3'-Cyanobiphenyl-4-yl sulfamate 319014-66-9P, 3'-Cyanomethylbiphenyl-4-yl sulfamate 319014-67-0P, 4'-Bromobiphenyl-4-yl sulfamate 319014-68-1P, 4'-Chlorobiphenyl-4-yl sulfamate 319014-69-2P, 4'-Methoxybiphenyl-4-yl sulfamate 319014-70-5P, 4'-Nitrobiphenyl-4-yl sulfamate 319014-71-6P, Methyl 4'-(sulfamoyloxy)-4-biphenylcarboxylate 319014-72-7P, 4'-Cyanobiphenyl-4-yl sulfamate 319014-73-8P, 4'-Trifluoromethylbiphenyl-4-yl sulfamate 319014-75-0P, 4'-(Cyanomethyl)biphenyl-4-yl sulfamate 319014-76-1P, Biphenyl-4,4'-diyl disulfamate 319014-78-3P, 2-Nitrobiphenyl-4,4'-diyl disulfamate 319014-79-4P, 2',4'-Dinitrobiphenyl-4-yl sulfamate 319014-80-7P,

2,2'-Dinitrobiphenyl-4,4'-diyl disulfamate 319014-81-8P,
2'-Cyano-4'-nitrobiphenyl-4-yl sulfamate 319014-82-9P,
4'-Cyano-2'-nitrobiphenyl-4-yl sulfamate 319014-83-0P,
2',4'-Dicyanobiphenyl-4-yl sulfamate 319014-84-1P,
[4-[N-Sulfamoyl-N-(4-(sulfamoyloxy)benzyl)amino]phenyl] sulfamate
319014-85-2P, [4-[N-(Methylsulfonyl)-N-(4-(sulfamoyloxy)benzyl)amino]phenyl] sulfamate 319014-86-3P,
[4-[N-Acetyl-N-(4-(sulfamoyloxy)benzyl)amino]phenyl] sulfamate
319014-87-4P, [4-[N-Acetyl-N-(4-(sulfamoyloxy)benzyl)amino]phenyl]
acetate 319014-88-5P, [4-[N-(4-(Sulfamoyloxy)phenyl)carbamoyl]ph
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[4-[N-Methyl-N-(4-(sulfamoyloxy)phenyl)carbamoyl]phenyl] sulfamate
319014-91-0P, [4-[N-(3-(Sulfamoyloxy)phenyl)carbamoyl]phenyl]
sulfamate 319014-92-1P, [4-[N-Methyl-N-(3-(sulfamoyloxy)phenyl)carbamoyl]phenyl] sulfamate 319014-93-2P
319014-95-4P 319014-97-6P 319014-99-8P,
4-(N-Phenylaminomethyl)phenyl sulfamate 319015-00-4P,
4-[N-(4-Cyanophenyl)aminomethyl]phenyl sulfamate 319015-01-5P,
4-[N-(2-Cyanophenyl)aminomethyl]phenyl sulfamate 319015-02-6P,
4-[N-(4-Hydroxyphenyl)aminomethyl]phenyl sulfamate 319015-03-7P,
4-[N-(4-Nitrophenyl)aminomethyl]phenyl sulfamate 319015-04-8P
319015-05-9P 319015-06-0P, 4-[[N,N-Bis(4-cyanophenyl)amino]methyl]phenyl sulfamate 319015-07-1P
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sulfamate 319015-09-3P, 4-[[N-(4-Cyanophenyl)-N-(sulfamoyl)amino]methyl]phenyl sulfamate 319015-10-6P,
4-[[N-(4-Cyanophenyl)-N-nicotinoylamino]methyl]phenyl sulfamate
319015-11-7P, 4-[[N-Benzoyl-N-(4-cyanophenyl)amino]methyl]phenyl
sulfamate 319015-12-8P, 4-[[N-(4-Cyanobenzoyl)-N-(4-cyanophenyl)amino]methyl]phenyl sulfamate 319015-13-9P,
4-(N,N-Diphenylcarbamoyl)phenyl sulfamate 319015-14-0P,
4-(N-Benzylcarbamoyl)phenyl sulfamate 319015-15-1P,
4-(N-Phenylcarbamoyl)phenyl sulfamate 319015-16-2P,
4-[[N-(4-Cyanobenzoyl)-N-methylamino]methyl]phenyl sulfamate
319015-17-3P, 4-[[N-(4H-1,2,4-Triazol-4-yl)amino]methyl]phenyl
sulfamate 319015-18-4P, 4-[[N-(3-Cyanobenzoyl)-N-(4H-1,2,4-triazol-4-yl)amino]methyl]phenyl sulfamate 319015-19-5P,
4-[[N-(4-Cyanophenyl)-N-(3-pyridyl)amino]methyl]phenyl sulfamate
319015-23-1P, 4-[[N-(4-Cyanophenyl)-N-methylamino]methyl]phenyl
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319015-34-4P, 4-[[N-(4-Cyanophenyl)-N-(3-thienylcarbonyl)amino]methyl]phenyl sulfamate 319015-36-6P,
4-[N-(4-Cyanophenyl)carbamoyl]phenyl sulfamate 319015-38-8P,
4-[N-(4-Cyanophenyl)-N-methylcarbamoyl]phenyl sulfamate
319015-39-9P, 4-(N',N'-Dimethylhydrazinocarbonyl)phenyl sulfamate
319015-40-2P, 2-[N-(4-(Sulfamoyloxy)phenyl)carbamoyl]phenyl
sulfamate 319015-42-4P, 3-[N-(2-(Sulfamoyloxy)phenyl)carbamoyl]p
henyl sulfamate 319015-43-5P, 3-[N-(3-(Sulfamoyloxy)phenyl)carbamoyl]phenyl sulfamate 319015-45-7P,
3-[N-(4-(Sulfamoyloxy)phenyl)carbamoyl]phenyl sulfamate
319015-46-8P, 4-[N-(2-(Sulfamoyloxy)phenyl)carbamoyl]phenyl
sulfamate 319015-48-0P, 4-[[N-(4-Cyanophenyl)-N-(2-pyrazinyl)amino]methyl]phenyl sulfamate 319015-50-4P
319015-52-6P 319015-53-7P 319015-54-8P,
9-Oxofluoren-2-yl sulfamate 319015-55-9P, Fluoren-2-yl sulfamate
319015-56-0P, 4-(3-Pyridyl)phenyl sulfamate 319015-57-1P
, 4-(2-Methylthiazol-4-yl)phenyl sulfamate 319015-58-2P,
4-(2-(Sulfamoyloxy)thiazol-4-yl)phenyl sulfamate 319015-60-6P,
4-[3-(N-Methylcarbamoyl)isoxazol-5-yl]phenyl sulfamate
319015-61-7P, 3-Chlorobiphenyl-4-yl sulfamate 319015-62-8P

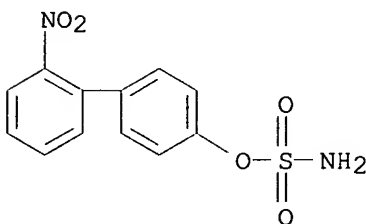
, 3-Bromobiphenyl-4-yl sulfamate 319015-63-9P,
3-Iodobiphenyl-4-yl sulfamate 319015-64-0P, 3-(Acetylamino)biphenyl-4-yl sulfamate 319015-66-2P,
4'-((Methylsulfonyl)amino)biphenyl-4-yl sulfamate 319015-68-4P,
2'-((Methylsulfonyl)amino)biphenyl-4-yl sulfamate 319015-70-8P,
4'-(Methylsulfonyloxy)biphenyl-4-yl sulfamate 319015-72-0P
319015-74-2P 319015-76-4P 319015-78-6P,
4-[[N-(4-Cyanophenyl)-N-(2-pyrimidinyl)amino]methyl]phenyl sulfamate
319015-79-7P, 2'-Cyano-4'-nitrobiphenyl-4-yl N,N-dimethylsulfamate
319015-80-0P, 4'-(Sulfamoylamino)biphenyl-4-yl sulfamate
319015-81-1P, 2'-(Sulfamoylamino)biphenyl-4-yl sulfamate
319015-83-3P 319015-85-5P 319015-86-6P,
4'-Amino-2'-cyanobiphenyl-4-yl sulfamate 319015-87-7P,
2'-Amino-4'-cyanobiphenyl-4-yl sulfamate

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of Ph sulfamate derivs. as steroid sulfatase inhibitors and drugs)

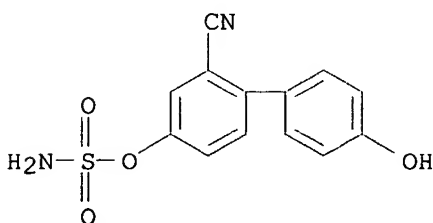
RN 319014-55-6 CAPLUS

CN Sulfamic acid, 2'-nitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



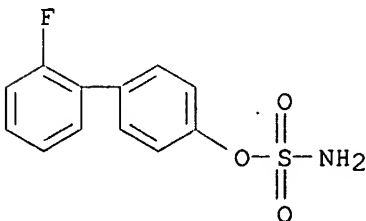
RN 319014-56-7 CAPLUS

CN Sulfamic acid, 2-cyano-4'-hydroxy[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

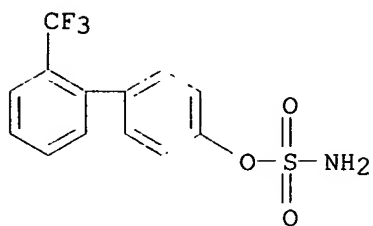


RN 319014-57-8 CAPLUS

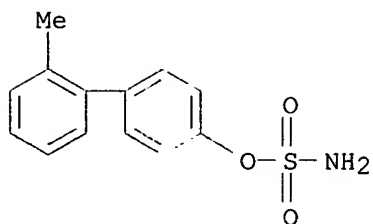
CN Sulfamic acid, 2'-fluoro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



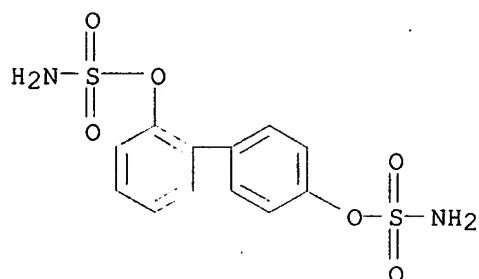
RN 319014-59-0 CAPLUS
CN Sulfamic acid, 2'-(trifluoromethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



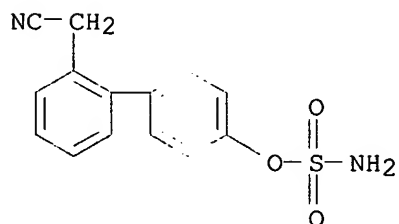
RN 319014-60-3 CAPLUS
CN Sulfamic acid, 2'-methyl[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



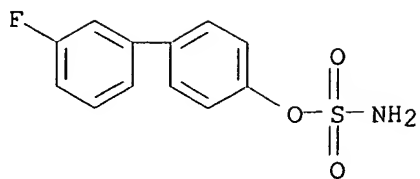
RN 319014-61-4 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-2,4'-diyl ester (9CI) (CA INDEX NAME)



RN 319014-62-5 CAPLUS
CN Sulfamic acid, 2'-(cyanomethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

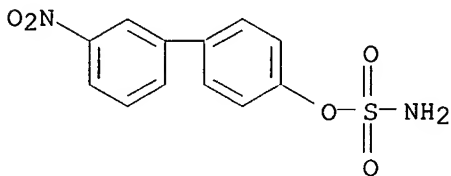


RN 319014-63-6 CAPLUS
CN Sulfamic acid, 3'-fluoro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



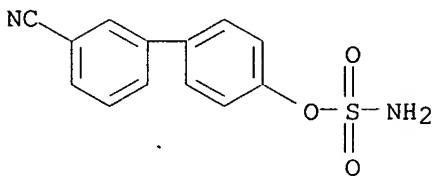
RN 319014-64-7 CAPLUS

CN Sulfamic acid, 3'-nitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



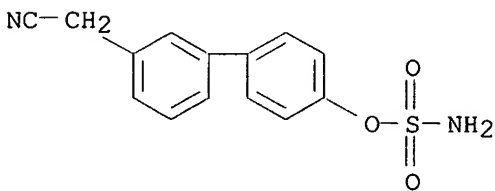
RN 319014-65-8 CAPLUS

CN Sulfamic acid, 3'-cyano[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



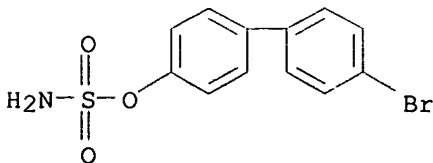
RN 319014-66-9 CAPLUS

CN Sulfamic acid, 3'-(cyanomethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



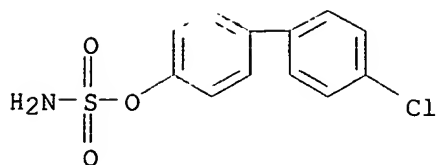
RN 319014-67-0 CAPLUS

CN Sulfamic acid, 4'-bromo[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



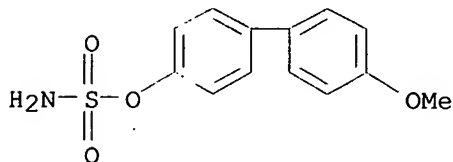
RN 319014-68-1 CAPLUS

CN Sulfamic acid, 4'-chloro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



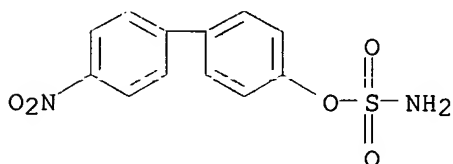
RN 319014-69-2 CAPLUS

CN Sulfamic acid, 4'-methoxy[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



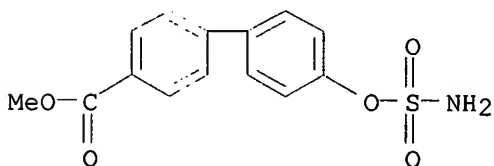
RN 319014-70-5 CAPLUS

CN Sulfamic acid, 4'-nitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



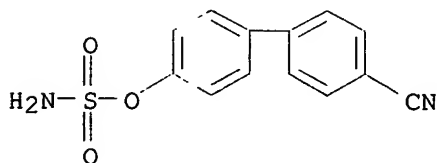
RN 319014-71-6 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[(aminosulfonyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



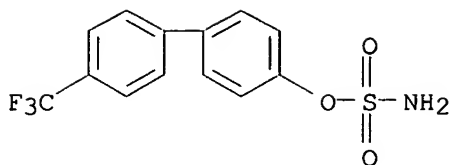
RN 319014-72-7 CAPLUS

CN Sulfamic acid, 4'-cyano[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



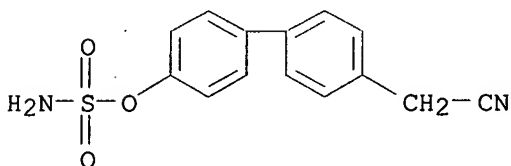
RN 319014-73-8 CAPLUS

CN Sulfamic acid, 4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



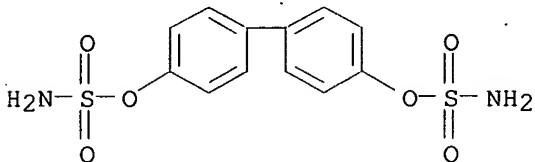
RN 319014-75-0 CAPLUS

CN Sulfamic acid, 4'-(cyanomethyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



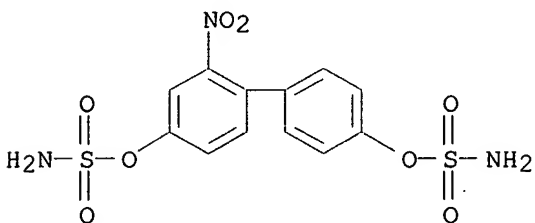
RN 319014-76-1 CAPLUS

CN Sulfamic acid, [1,1'-biphenyl]-4,4'-diyl ester (9CI) (CA INDEX NAME)



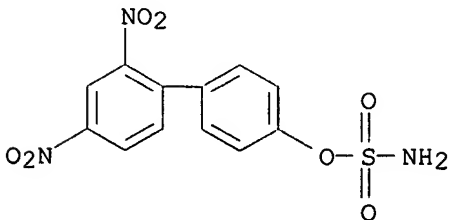
RN 319014-78-3 CAPLUS

CN Sulfamic acid, 2-nitro[1,1'-biphenyl]-4,4'-diyl ester (9CI) (CA INDEX NAME)

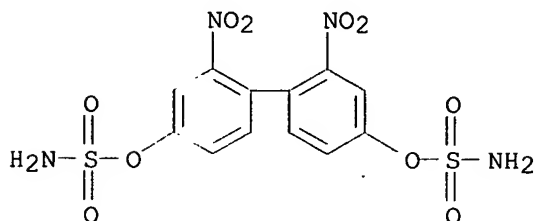


RN 319014-79-4 CAPLUS

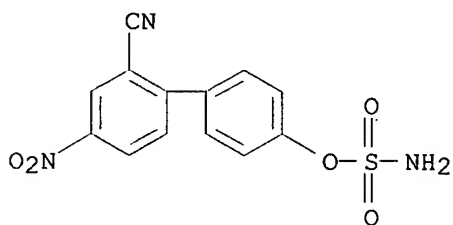
CN Sulfamic acid, 2',4'-dinitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



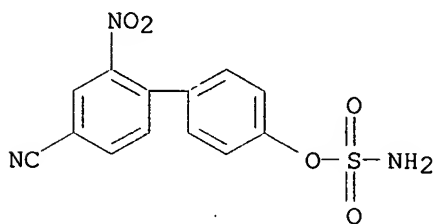
RN 319014-80-7 CAPLUS
CN Sulfamic acid, 2,2'-dinitro[1,1'-biphenyl]-4,4'-diyl ester (9CI) (CA INDEX NAME)



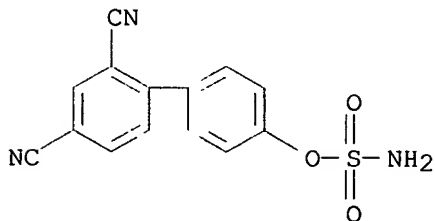
RN 319014-81-8 CAPLUS
CN Sulfamic acid, 2'-cyano-4'-nitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 319014-82-9 CAPLUS
CN Sulfamic acid, 4'-cyano-2'-nitro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

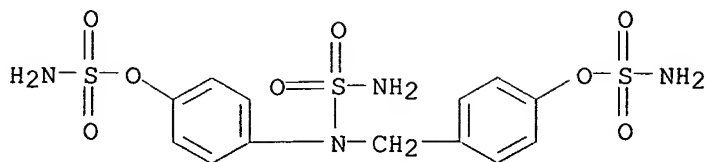


RN 319014-83-0 CAPLUS
CN Sulfamic acid, 2',4'-dicyano[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



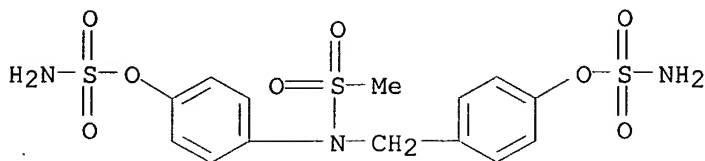
RN 319014-84-1 CAPLUS
CN Sulfamic acid, 4-[[[(aminosulfonyl)[4-[(aminosulfonyl)oxy]phenyl]amino]meth

yl]phenyl ester (9CI) (CA INDEX NAME)



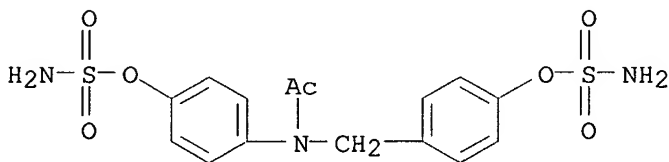
RN 319014-85-2 CAPLUS

CN Sulfamic acid, 4-[[[4-[(aminosulfonyl)oxy]phenyl]methyl] (methylsulfonyl)amino]phenyl ester (9CI) (CA INDEX NAME)



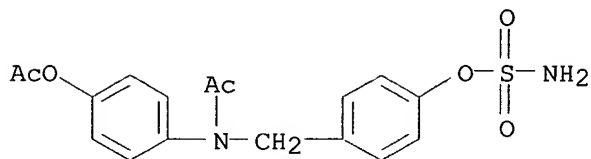
RN 319014-86-3 CAPLUS

CN Sulfamic acid, 4-[acetyl[[4-[(aminosulfonyl)oxy]phenyl]methyl]amino]phenyl ester (9CI) (CA INDEX NAME)



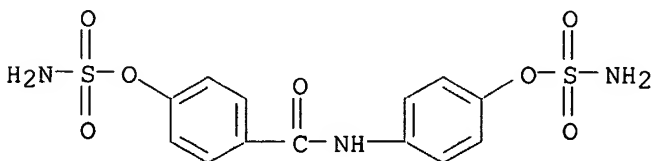
RN 319014-87-4 CAPLUS

CN Sulfamic acid, 4-[[[acetyl[4-(acetyloxy)phenyl]amino]methyl]phenyl ester (9CI) (CA INDEX NAME)

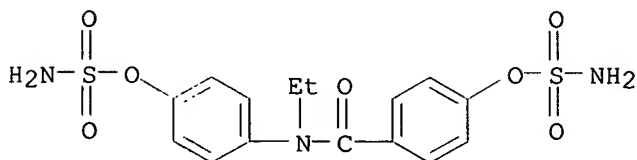


RN 319014-88-5 CAPLUS

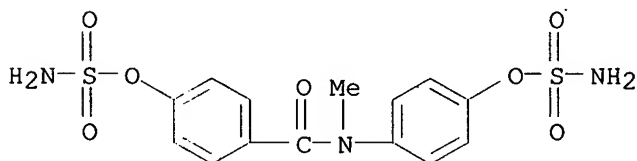
CN Sulfamic acid, 4-[[[4-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI) (CA INDEX NAME)



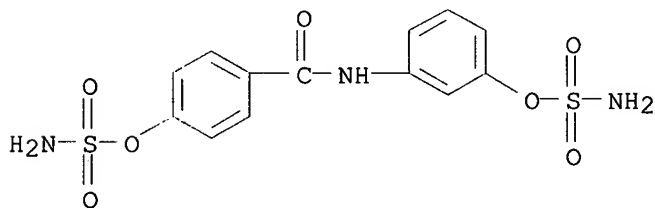
RN 319014-89-6 CAPLUS
CN Sulfamic acid, 4-[[4-[(aminosulfonyl)oxy]benzoyl]ethylamino]phenyl ester
(9CI) (CA INDEX NAME)



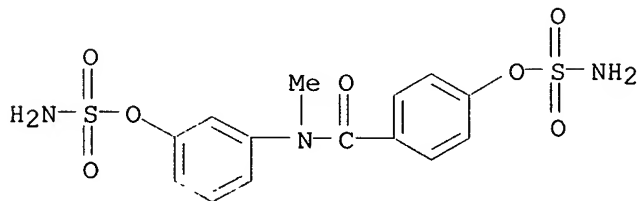
RN 319014-90-9 CAPLUS
CN Sulfamic acid, 4-[[4-[(aminosulfonyl)oxy]benzoyl]methylamino]phenyl ester
(9CI) (CA INDEX NAME)



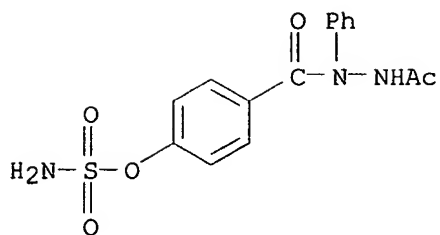
RN 319014-91-0 CAPLUS
CN Sulfamic acid, 3-[[4-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)



RN 319014-92-1 CAPLUS
CN Sulfamic acid, 3-[[4-[(aminosulfonyl)oxy]benzoyl]methylamino]phenyl ester
(9CI) (CA INDEX NAME)

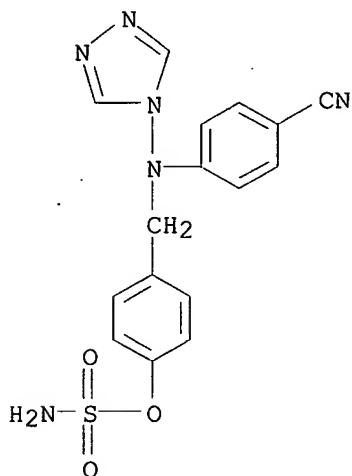


RN 319014-93-2 CAPLUS
CN Benzoic acid, 4-[(aminosulfonyl)oxy]-, 2-acetyl-1-phenylhydrazide (9CI)
(CA INDEX NAME)



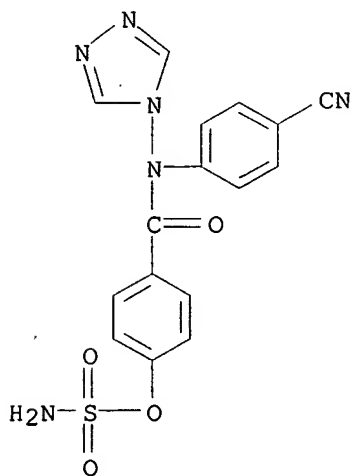
RN 319014-95-4 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)-4H-1,2,4-triazol-4-ylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



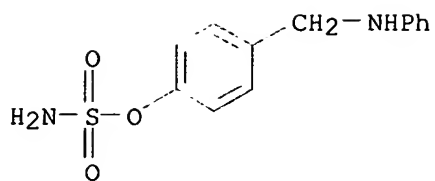
RN 319014-97-6 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)-4H-1,2,4-triazol-4-ylamino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)



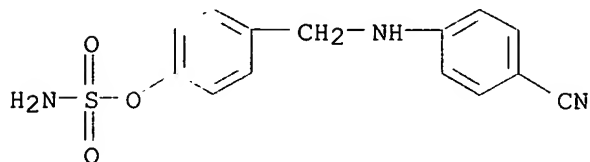
RN 319014-99-8 CAPLUS

CN Sulfamic acid, 4-[(phenylamino)methyl]phenyl ester (9CI) (CA INDEX NAME)



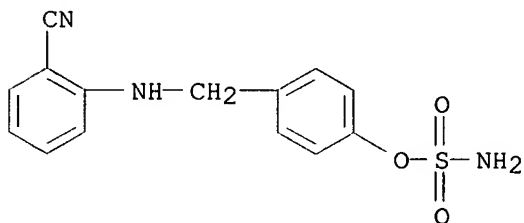
RN 319015-00-4 CAPLUS

CN Sulfamic acid, 4-[[4-(4-cyanophenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



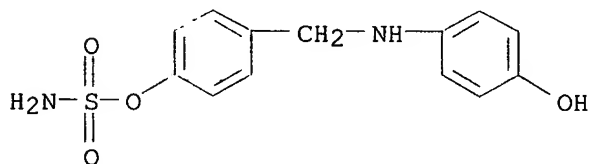
RN 319015-01-5 CAPLUS

CN Sulfamic acid, 4-[[2-(4-cyanophenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



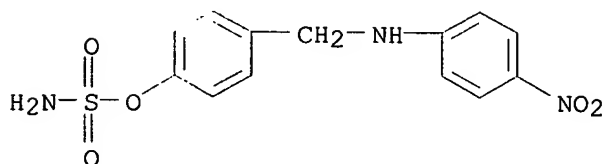
RN 319015-02-6 CAPLUS

CN Sulfamic acid, 4-[[4-(4-hydroxyphenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



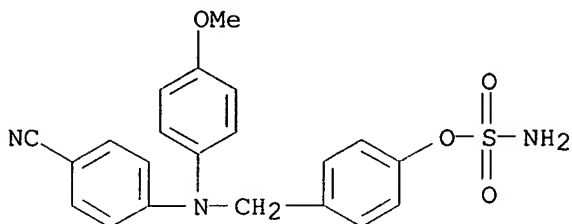
RN 319015-03-7 CAPLUS

CN Sulfamic acid, 4-[[4-(4-nitrophenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



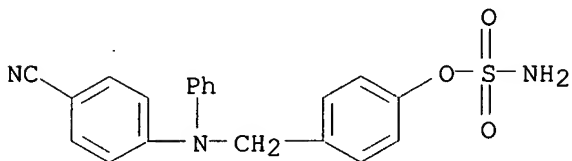
RN 319015-04-8 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(4-methoxyphenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



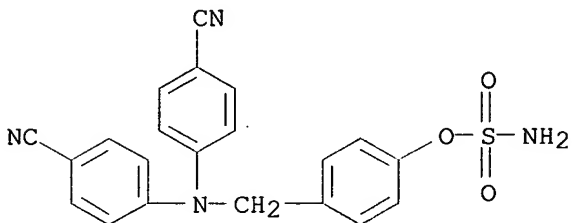
RN 319015-05-9 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)phenylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



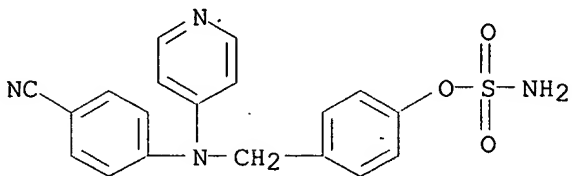
RN 319015-06-0 CAPLUS

CN Sulfamic acid, 4-[[[bis(4-cyanophenyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



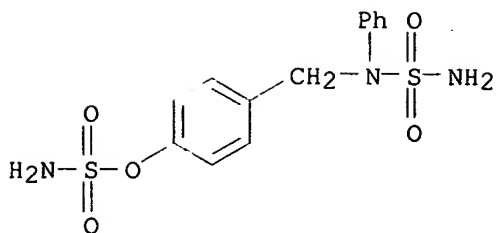
RN 319015-07-1 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)-4-pyridinylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



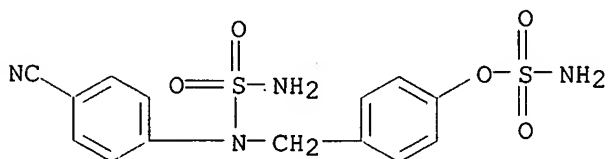
RN 319015-08-2 CAPLUS

CN Sulfamic acid, 4-[[[(aminosulfonyl)phenylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



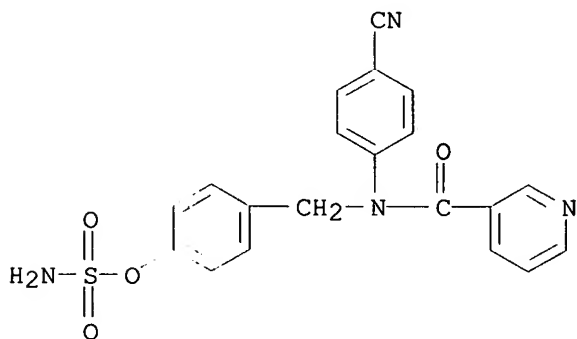
RN 319015-09-3 CAPLUS

CN Sulfamic acid, 4-[[[(aminosulfonyl)(4-cyanophenyl)amino]methyl]phenyl] ester (9CI) (CA INDEX NAME)



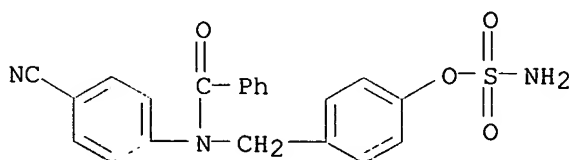
RN 319015-10-6 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(3-pyridinylcarbonyl)amino]methyl]phenyl] ester (9CI) (CA INDEX NAME)



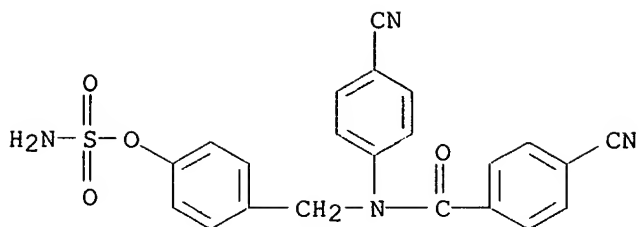
RN 319015-11-7 CAPLUS

CN Sulfamic acid, 4-[[[benzoyl(4-cyanophenyl)amino]methyl]phenyl] ester (9CI) (CA INDEX NAME)

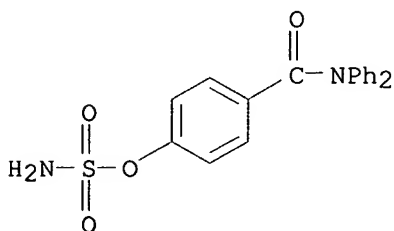


RN 319015-12-8 CAPLUS

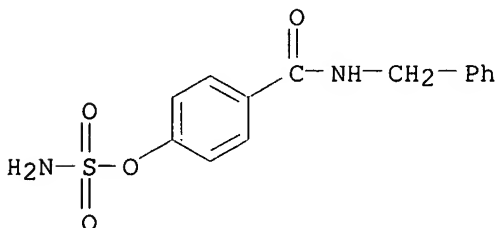
CN Sulfamic acid, 4-[[[(4-cyanobenzoyl)(4-cyanophenyl)amino]methyl]phenyl] ester (9CI) (CA INDEX NAME)



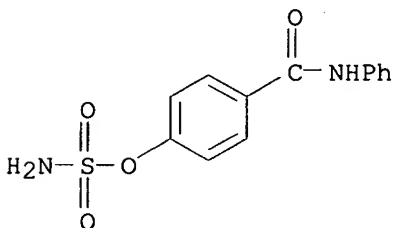
RN 319015-13-9 CAPLUS
CN Sulfamic acid, 4-[(diphenylamino)carbonyl]phenyl ester (9CI) (CA INDEX NAME)



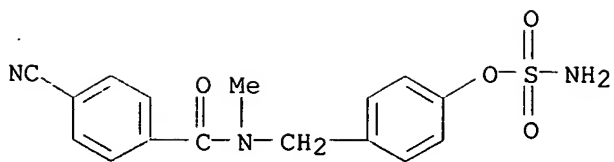
RN 319015-14-0 CAPLUS
CN Sulfamic acid, 4-[(phenylmethyl)amino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)



RN 319015-15-1 CAPLUS
CN Sulfamic acid, 4-[(phenylamino)carbonyl]phenyl ester (9CI) (CA INDEX NAME)

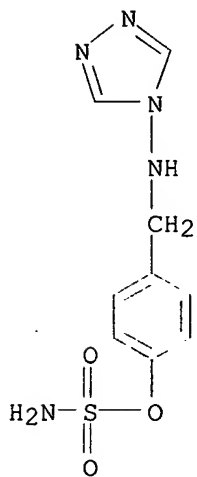


RN 319015-16-2 CAPLUS
CN Sulfamic acid, 4-[(4-cyanobenzoyl)methylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



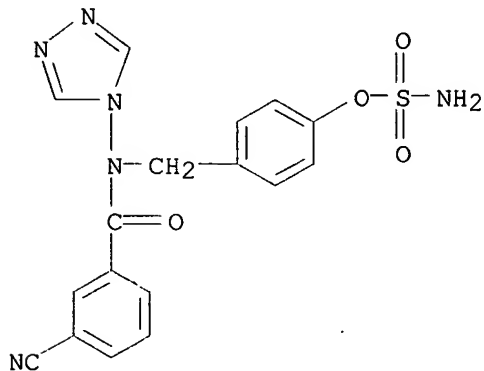
RN 319015-17-3 CAPLUS

CN Sulfamic acid, 4-[(4H-1,2,4-triazol-4-ylamino)methyl]phenyl ester (9CI)
(CA INDEX NAME)



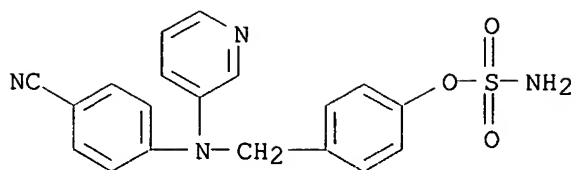
RN 319015-18-4 CAPLUS

CN Sulfamic acid, 4-[(3-cyanobenzoyl)-4H-1,2,4-triazol-4-ylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



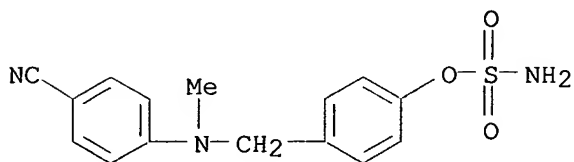
RN 319015-19-5 CAPLUS

CN Sulfamic acid, 4-[(4-cyanophenyl)-3-pyridinylamino]methyl]phenyl ester (9CI) (CA INDEX NAME)



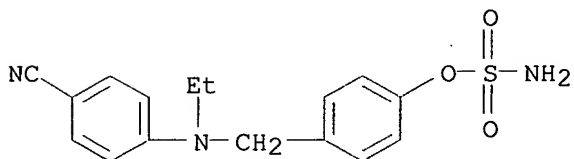
RN 319015-23-1 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)methylamino]methyl]phenyl ester (9CI)
(CA INDEX NAME)



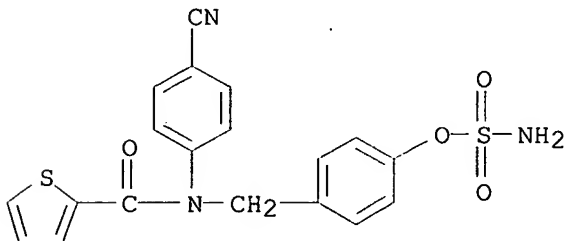
RN 319015-26-4 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)ethylamino]methyl]phenyl ester (9CI)
(CA INDEX NAME)



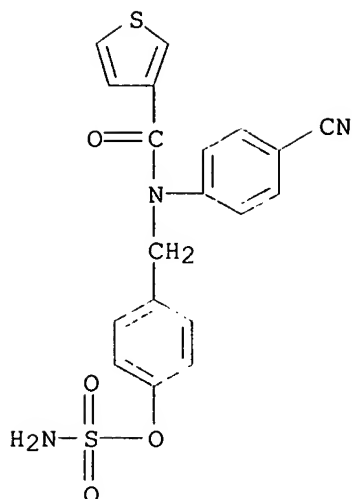
RN 319015-30-0 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(2-thienylcarbonyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



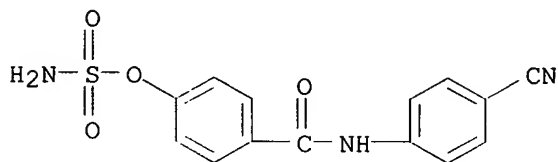
RN 319015-34-4 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(3-thienylcarbonyl)amino]methyl]phenyl ester (9CI) (CA INDEX NAME)



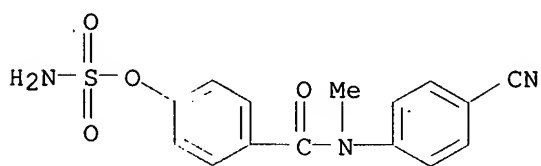
RN 319015-36-6 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)amino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)



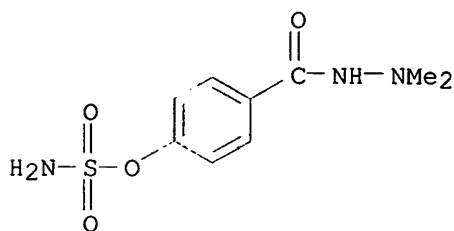
RN 319015-38-8 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)methylamino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)



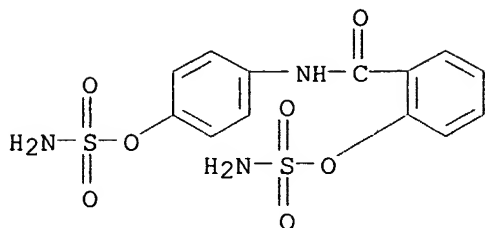
RN 319015-39-9 CAPLUS

CN Benzoic acid, 4-[(aminosulfonyl)oxy]-, 2,2-dimethylhydrazide (9CI) (CA INDEX NAME)

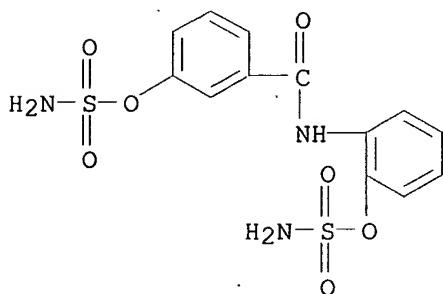


RN 319015-40-2 CAPLUS

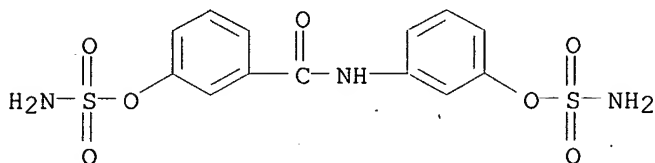
CN Sulfamic acid, 4-[[2-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)



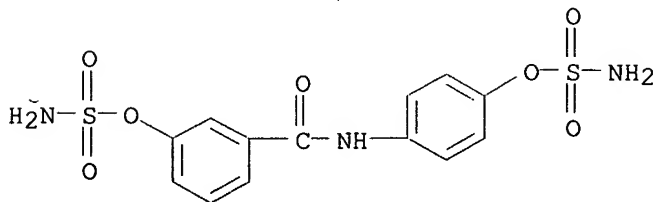
RN 319015-42-4 CAPLUS
CN Sulfamic acid, 2-[[3-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)



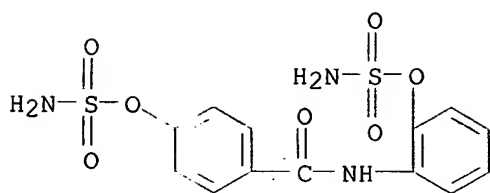
RN 319015-43-5 CAPLUS
CN Sulfamic acid, 3-[[3-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)



RN 319015-45-7 CAPLUS
CN Sulfamic acid, 4-[[3-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)

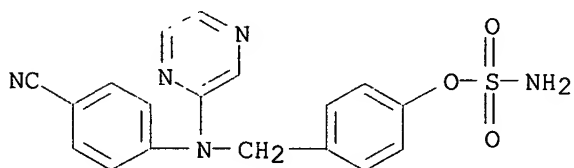


RN 319015-46-8 CAPLUS
CN Sulfamic acid, 2-[[4-[(aminosulfonyl)oxy]benzoyl]amino]phenyl ester (9CI)
(CA INDEX NAME)



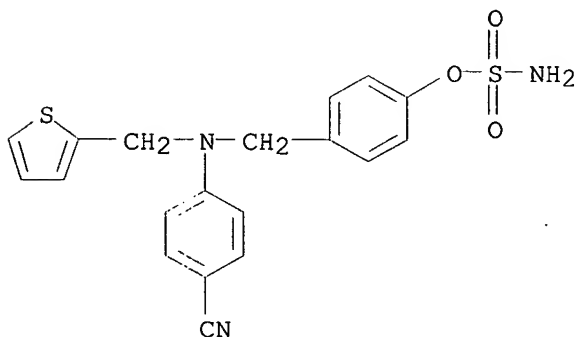
RN 319015-48-0 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)pyrazinylamino]methyl]phenyl ester (9CI)
(CA INDEX NAME)



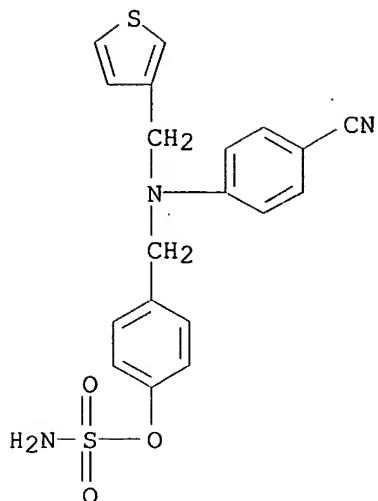
RN 319015-50-4 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(2-thienylmethyl)amino]methyl]phenyl
ester (9CI) (CA INDEX NAME)



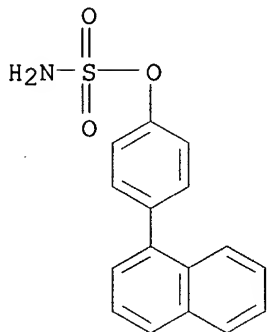
RN 319015-52-6 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)(3-thienylmethyl)amino]methyl]phenyl
ester (9CI) (CA INDEX NAME)



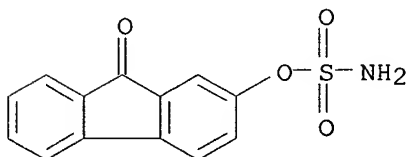
RN 319015-53-7 CAPLUS

CN Sulfamic acid, 4-(1-naphthalenyl)phenyl ester (9CI) (CA INDEX NAME)



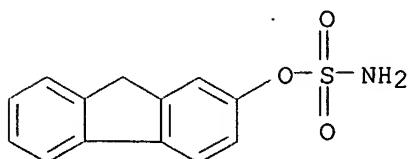
RN 319015-54-8 CAPLUS

CN Sulfamic acid, 9-oxo-9H-fluoren-2-yl ester (9CI) (CA INDEX NAME)



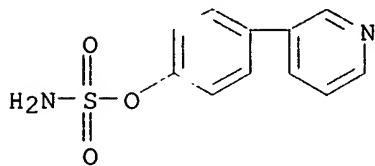
RN 319015-55-9 CAPLUS

CN Sulfamic acid, 9H-fluoren-2-yl ester (9CI) (CA INDEX NAME)



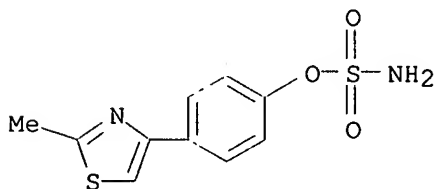
RN 319015-56-0 CAPLUS

CN Sulfamic acid, 4-(3-pyridinyl)phenyl ester (9CI) (CA INDEX NAME)



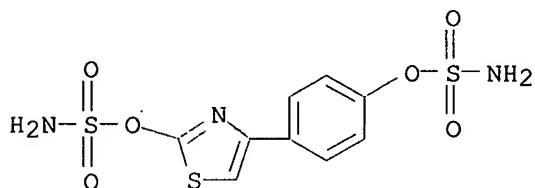
RN 319015-57-1 CAPLUS

CN Sulfamic acid, 4-(2-methyl-4-thiazolyl)phenyl ester (9CI) (CA INDEX NAME)



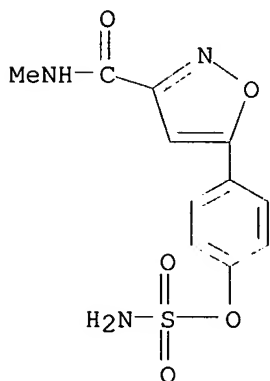
RN 319015-58-2 CAPLUS

CN Sulfamic acid, 4-[4-[(aminosulfonyl)oxy]phenyl]-2-thiazolyl ester (9CI)
(CA INDEX NAME)



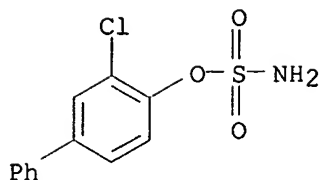
RN 319015-60-6 CAPLUS

CN Sulfamic acid, 4-[3-[(methylamino)carbonyl]-5-isoxazolyl]phenyl ester
(9CI) (CA INDEX NAME)



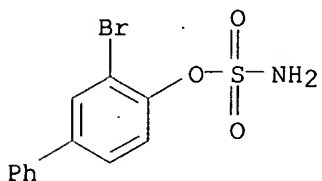
RN 319015-61-7 CAPLUS

CN Sulfamic acid, 3-chloro[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



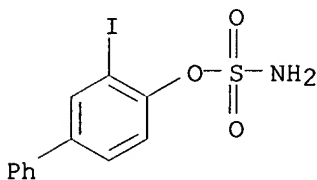
RN 319015-62-8 CAPLUS

CN Sulfamic acid, 3-bromo[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



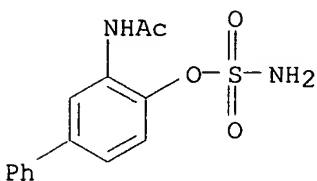
RN 319015-63-9 CAPLUS

CN Sulfamic acid, 3-iodo[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



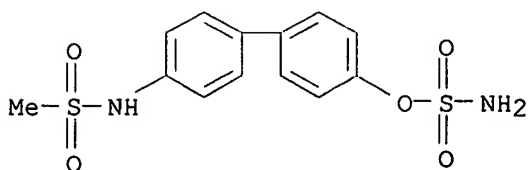
RN 319015-64-0 CAPLUS

CN Sulfamic acid, 3-(acetylamino)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

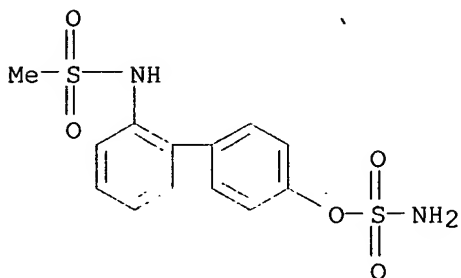


RN 319015-66-2 CAPLUS

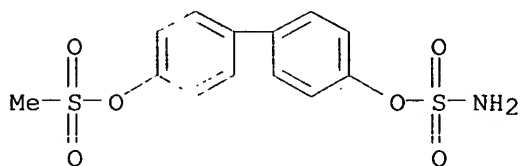
CN Sulfamic acid, 4'-[(methylsulfonyl)amino][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 319015-68-4 CAPLUS

CN Sulfamic acid, 2'-[(methylsulfonyl)amino][1,1'-biphenyl]-4-yl ester (9CI)
(CA INDEX NAME)

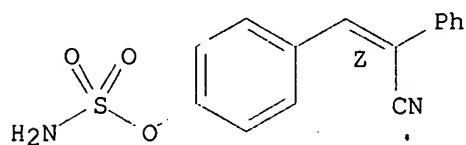
RN 319015-70-8 CAPLUS

CN Sulfamic acid, 4'-[(methylsulfonyl)oxy][1,1'-biphenyl]-4-yl ester (9CI)
(CA INDEX NAME)

RN 319015-72-0 CAPLUS

CN Sulfamic acid, 4-[(1Z)-2-cyano-2-phenylethenyl]phenyl ester, (.alpha.Z)-
(9CI) (CA INDEX NAME)

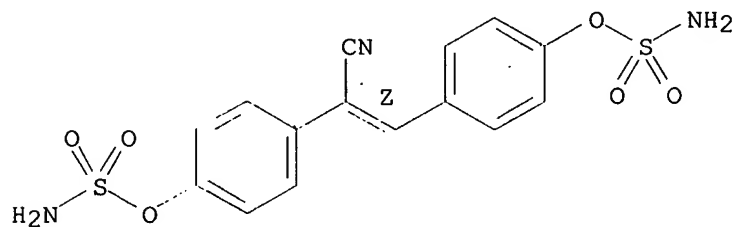
Double bond geometry as shown.



RN 319015-74-2 CAPLUS

CN Sulfamic acid, [(1Z)-1-cyano-1,2-ethendiyl]di-4,1-phenylene ester (9CI)
(CA INDEX NAME)

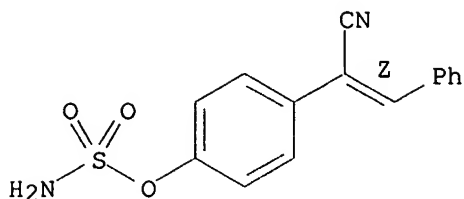
Double bond geometry as shown.



RN 319015-76-4 CAPLUS

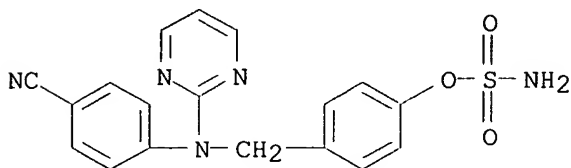
CN Sulfamic acid, 4-[(1Z)-1-cyano-2-phenylethenyl]phenyl ester (9CI) (CA
INDEX NAME)

Double bond geometry as shown.



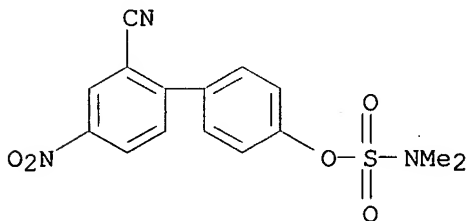
RN 319015-78-6 CAPLUS

CN Sulfamic acid, 4-[[[(4-cyanophenyl)-2-pyrimidinylamino]methyl]phenyl ester
(9CI) (CA INDEX NAME)



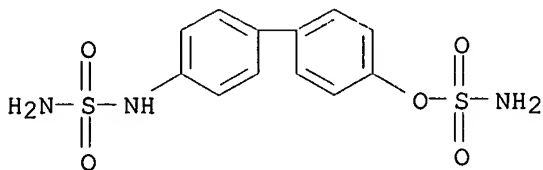
RN 319015-79-7 CAPLUS

CN Sulfamic acid, dimethyl-, 2'-cyano-4'-nitro[1,1'-biphenyl]-4-yl ester
(9CI) (CA INDEX NAME)



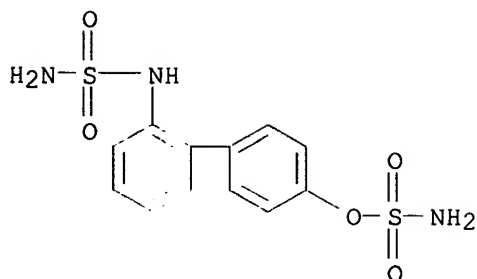
RN 319015-80-0 CAPLUS

CN Sulfamic acid, 4'--[(aminosulfonyl)amino][1,1'-biphenyl]-4-yl ester (9CI)
(CA INDEX NAME)



RN 319015-81-1 CAPLUS

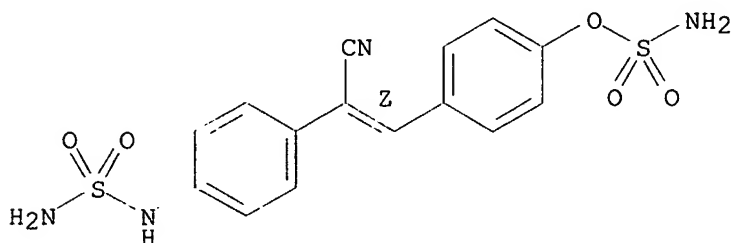
CN Sulfamic acid, 2'--[(aminosulfonyl)amino][1,1'-biphenyl]-4-yl ester (9CI)
(CA INDEX NAME)



RN 319015-83-3 CAPLUS

CN Sulfamic acid, 4-[(1Z)-2-[4-[(aminosulfonyl)amino]phenyl]-2-cyanoethenyl]phenyl ester (9CI) (CA INDEX NAME)

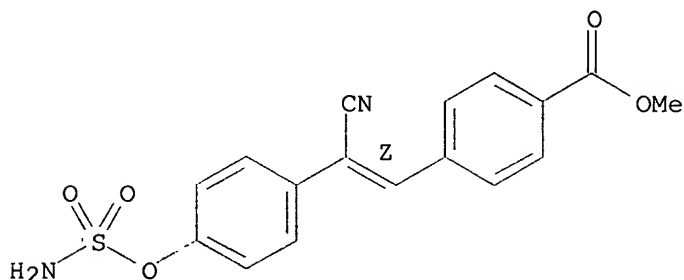
Double bond geometry as shown.



RN 319015-85-5 CAPLUS

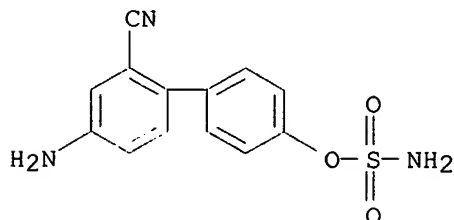
CN Benzoic acid, 4-[(1Z)-2-[4-[(aminosulfonyl)oxy]phenyl]-2-cyanoethenyl]-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

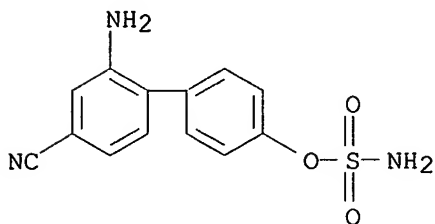


RN 319015-86-6 CAPLUS

CN Sulfamic acid, 4'-amino-2'-cyano[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



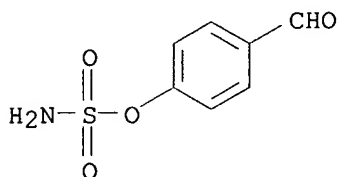
RN 319015-87-7 CAPLUS
CN Sulfamic acid, 2'-amino-4'-cyano[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, **Steroid sulfatase**
RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)
(prepn. of Ph sulfamate derivs. as **steroid sulfatase inhibitors** and drugs)
RN 9025-62-1 CAPLUS
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 319014-98-7P, 4-Formylphenyl sulfamate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of Ph sulfamate derivs. as **steroid sulfatase inhibitors** and drugs)
RN 319014-98-7 CAPLUS
CN Sulfamic acid, 4-formylphenyl ester (9CI) (CA INDEX NAME)



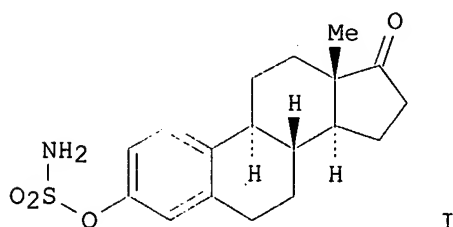
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:875743 CAPLUS
DOCUMENT NUMBER: 134:29611
TITLE: Preparation of O-sulfamoylphenols for pharmaceutical use as **steroid sulfatase inhibitors**
INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd
PATENT ASSIGNEE(S): Sterix Limited, UK
SOURCE: U.S., 56 pp., Cont.-in-part of U.S. 6,011,024.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6159960	A	20001212	US 1998-193969	19981118
EP 921130	A2	19990609	EP 1998-204340	19920828

EP 921130 A3 20010905
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE
 EP 928609 A2 19990714 EP 1998-204337 19920828
 EP 928609 A3 20011107
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE
 JP 2000038341 A2 20000208 JP 1999-211413 19920828
 EP 982032 A2 20000301 EP 1999-203449 19920828
 EP 982032 A3 20020320
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE
 JP 2000355542 A2 20001226 JP 2000-163410 19920828
 JP 2000355598 A2 20001226 JP 2000-163411 19920828
 EP 1099706 A2 20010516 EP 2000-204525 19920828
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE
 US 5830886 A 19981103 US 1995-458352 19950602
 US 6011024 A 20000104 US 1998-111927 19980708
 AU 9910077 A1 19990304 AU 1999-10077 19990111
 AU 717116 B2 20000316
 AU 726811 B2 20001123 AU 2000-10130 20000106
 PRIORITY APPLN. INFO.: GB 1991-18478 A 19910829
 US 1995-458352 A2 19950602
 US 1998-111927 A2 19980708
 EP 1992-918285 A3 19920828
 EP 1998-204340 A3 19920828
 JP 1993-505032 A3 19920828
 US 1994-196192 A3 19941227
 WO 1997-GB444 A2 19970217
 WO 1997-GB600 A2 19970304
 WO 1997-GB3352 A2 19971204
 AU 1998-71952 A3 19980618
 AU 1999-10077 A 19990111

OTHER SOURCE(S): MARPAT 134:29611
 GI



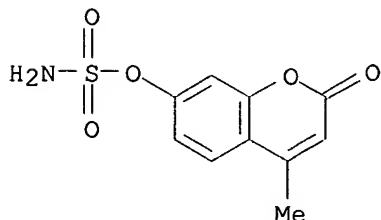
AB O-sulfamoylphenols, R1R2N-SO2-OR [R = aryl bonded through a benzene subunit, such as Ph, estra-1,3,5(10)-trien-3-yl, coumarinyl, flavonyl, flavanonyl, isoflavonyl; R1, R2 = H, alkyl, alkenyl, cycloalkyl, aryl], were prepd. for use as steroid sulfatase inhibitors for the treatment of diseases, such as breast cancer. Thus, osterone was reacted with sulfamoyl chloride using NaH in DMF to give sulfamate I. The prepd. sulfamates were tested for inhibiting activity against steroid sulfatase enzyme (E.C.3.1.6.2).

IT 136167-05-0P 148672-09-7P 148672-10-0P
 148672-11-1P 175694-72-1P 175694-73-2P
 175694-74-3P 185910-34-3P 196815-14-2P
 196815-17-5P 196815-21-1P 196815-29-9P
 196815-32-4P 196815-35-7P 196815-37-9P
 208924-80-5P 208924-81-6P 208924-82-7P
 208924-83-8P 208924-84-9P 208924-85-0P
 208924-86-1P 208924-87-2P 208924-88-3P
 243129-60-4P 243129-61-5P 253601-93-3P
 253601-94-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of O-sulfamoylphenols for pharmaceutical use as **steroid sulfatase inhibitors**)

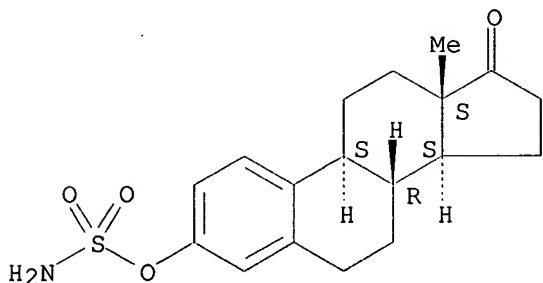
RN 136167-05-0 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



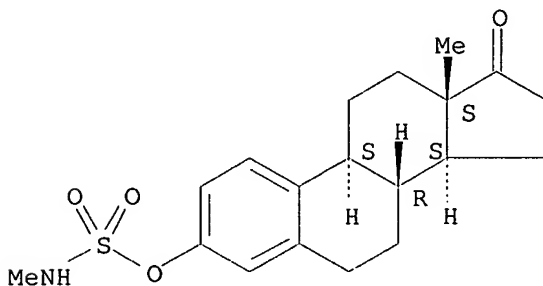
RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 148672-10-0 CAPLUS

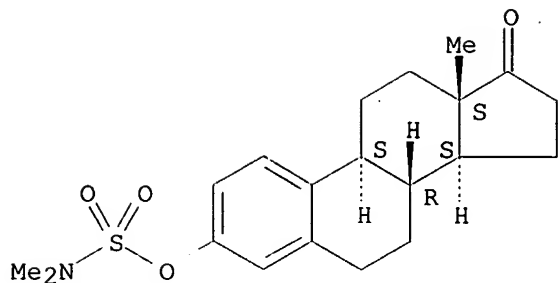
CN Estra-1,3,5(10)-trien-17-one, 3-[[(methylamino) sulfonyl]oxy]- (9CI) (CA INDEX NAME)



RN 148672-11-1 CAPLUS

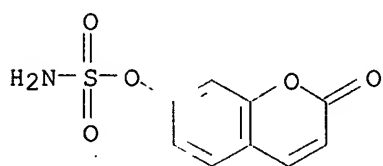
CN Estra-1,3,5(10)-trien-17-one, 3-[[(dimethylamino) sulfonyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



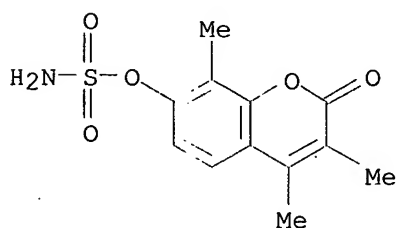
RN 175694-72-1 CAPLUS

CN Sulfamic acid, 2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



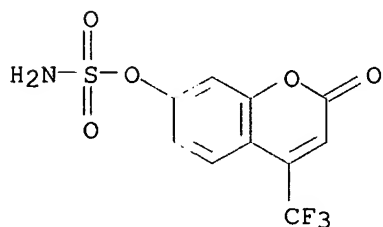
RN 175694-73-2 CAPLUS

CN Sulfamic acid, 3,4,8-trimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 175694-74-3 CAPLUS

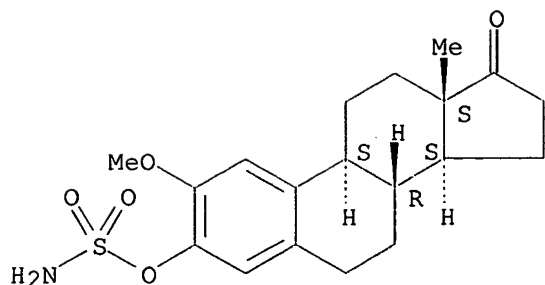
CN Sulfamic acid, 2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 185910-34-3 CAPLUS

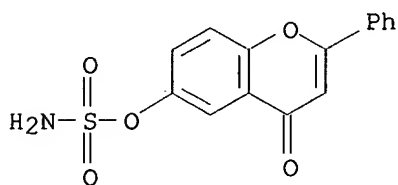
CN Estradiol-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



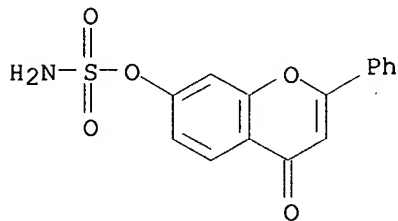
RN 196815-14-2 CAPLUS

CN Sulfamic acid, 4-oxo-2-phenyl-4H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



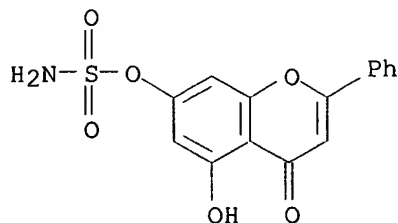
RN 196815-17-5 CAPLUS

CN Sulfamic acid, 4-oxo-2-phenyl-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



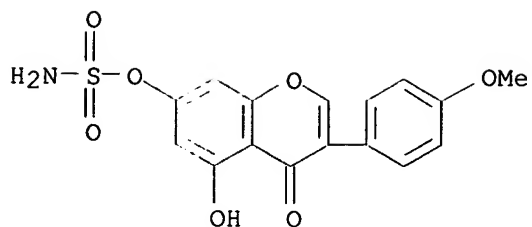
RN 196815-21-1 CAPLUS

CN Sulfamic acid, 5-hydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

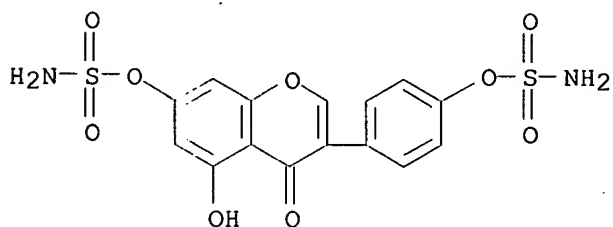


RN 196815-29-9 CAPLUS

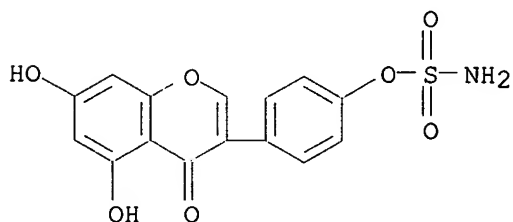
CN Sulfamic acid, 5-hydroxy-3-(4-methoxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



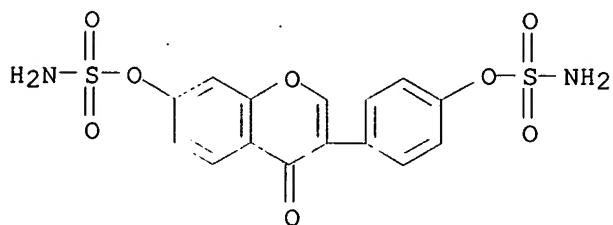
RN 196815-32-4 CAPLUS
CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-5-hydroxy-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 196815-35-7 CAPLUS
CN Sulfamic acid, 4-(5,7-hydroxy-4-oxo-4H-1-benzopyran-3-yl)phenyl ester (9CI) (CA INDEX NAME)

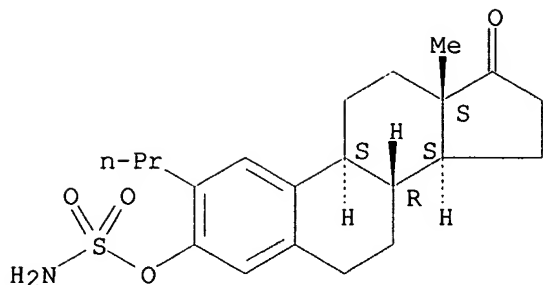


RN 196815-37-9 CAPLUS
CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 208924-80-5 CAPLUS
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-propyl- (9CI) (CA INDEX NAME)

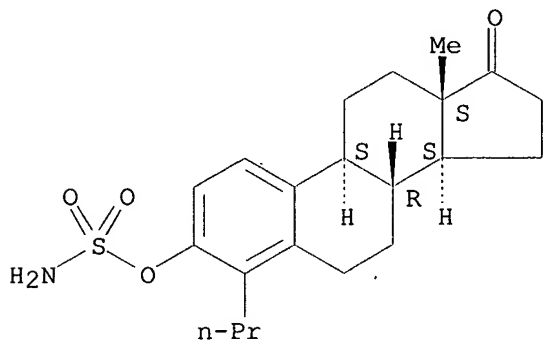
Absolute stereochemistry.



RN 208924-81-6 CAPLUS

CN Estradiol 3-[(aminosulfonyl)oxy]-4-propyl- (9CI) (CA INDEX NAME)

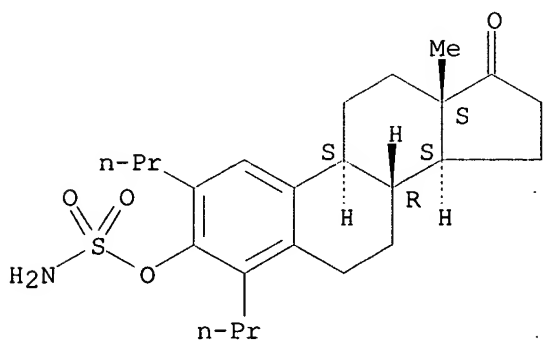
Absolute stereochemistry.



RN 208924-82-7 CAPLUS

CN Estradiol 3-[(aminosulfonyl)oxy]-2,4-dipropyl- (9CI) (CA INDEX NAME)

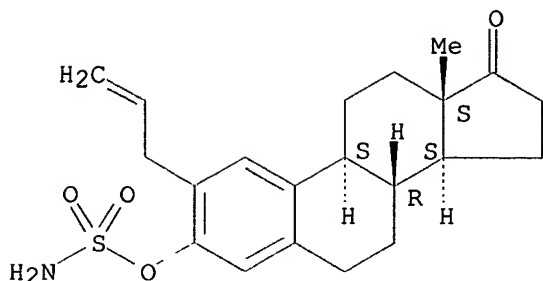
Absolute stereochemistry.



RN 208924-83-8 CAPLUS

CN Estradiol 3-[(aminosulfonyl)oxy]-2-(2-propenyl)- (9CI) (CA INDEX NAME)

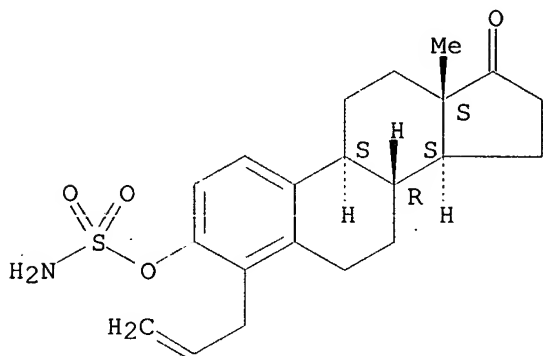
Absolute stereochemistry.



RN 208924-84-9 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-4-(2-propenyl)- (9CI)
(CA INDEX NAME)

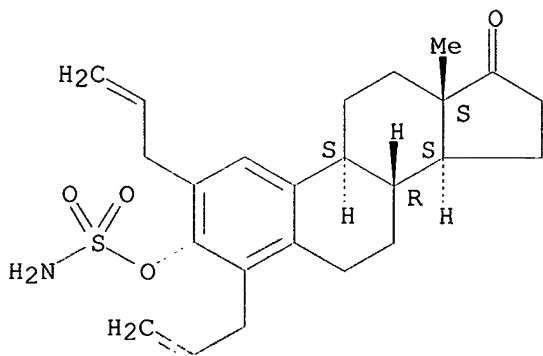
Absolute stereochemistry.



RN 208924-85-0 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2,4-bis(2-propenyl)- (9CI)
(CA INDEX NAME)

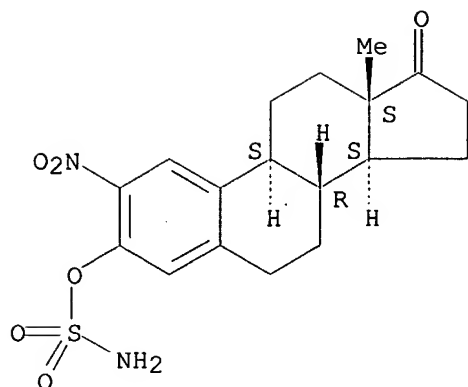
Absolute stereochemistry.



RN 208924-86-1 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-nitro- (9CI)
(CA INDEX NAME)

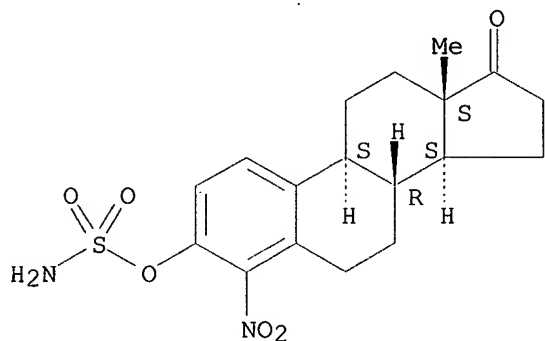
Absolute stereochemistry.



RN 208924-87-2 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-4-nitro- (9CI) (CA INDEX NAME)

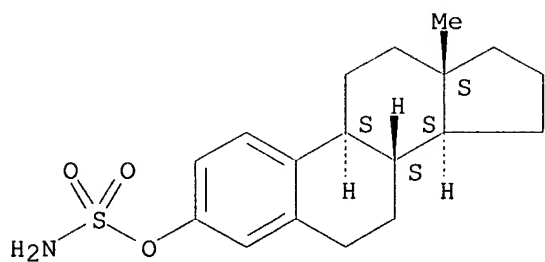
Absolute stereochemistry.



RN 208924-88-3 CAPLUS

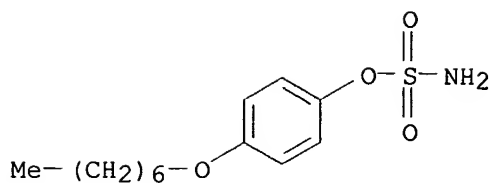
CN Estra-1,3,5(10)-trien-3-ol, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 243129-60-4 CAPLUS

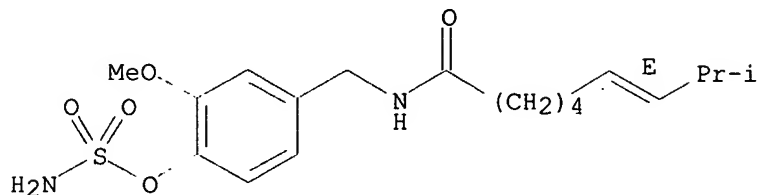
CN Sulfamic acid, 4-(heptyloxy)phenyl ester (9CI) (CA INDEX NAME)



RN 243129-61-5 CAPLUS

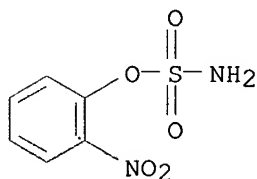
CN Sulfamic acid, 2-methoxy-4-[[[(6E)-8-methyl-1-oxo-6-nonenyl]amino]methyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



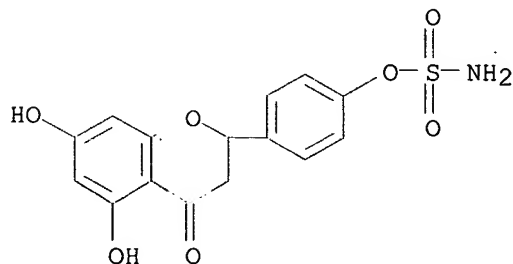
RN 253601-93-3 CAPLUS

CN Sulfamic acid, 2-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 253601-94-4 CAPLUS

CN Sulfamic acid, 4-(3,4-dihydro-5,7-dihydroxy-4-oxo-2H-1-benzopyran-2-yl)phenyl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, E.C.3.1.6.2

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(prepn. of O-sulfamoylphenols for pharmaceutical use as **steroid sulfatase inhibitors**)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:801144 CAPLUS

DOCUMENT NUMBER: 134:95125

TITLE: Potent active site-directed inhibition of steroid sulfatase by tricyclic coumarin-based sulfamates

AUTHOR(S): Woo, L. W. Lawrence; Purohit, Atul; Malini, Bindu; Reed, Michael J.; Potter, Barry V. L.

CORPORATE SOURCE: Department of Pharmacy and Pharmacology and Sterix Ltd., University of Bath, Bath, BA2 7AY, UK

SOURCE: Chemistry & Biology (2000), 7(10), 773-791

CODEN: CBOLE2; ISSN: 1074-5521

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Background: There is now abundant evidence that inhibition of steroid sulfatase alone or in conjunction with inhibition of aromatase may enhance the response of postmenopausal patients with hormone-dependent breast cancer to this type of endocrine therapy. Addnl., sulfatase inhibition has been proposed to be of potential therapeutic benefit in the immune system and for neuro-degenerative diseases. After the finding that the authors first highly potent active site-directed steroid sulfatase inhibitor, estrone-3-O-sulfamate (EMATE), was highly estrogenic, the authors proposed non-steroidal coumarin sulfamates such as 4-methylcoumarin-7-O-sulfamate (COUMATE) as alternative non-steroidal steroid sulfatase inhibitors. In this work, the authors describe how tricyclic coumarin-based sulfamates have been developed which are even more potent than COUMATE, are non-estrogenic and orally active. The authors also discuss potential mechanisms of action. Results: 4-Ethyl-, 4-(n-propyl)-, 3-ethyl-4-methyl-, 4-methyl-3-(n-propyl)coumarin-7-O-sulfamate; the tricyclic derivs. 665COUMATE, 666COUMATE, 667COUMATE, 668COUMATE and the tricyclic oxepin sulfamate were synthesized. In a placental microsome prepn., all of these analogs were more active than COUMATE in the inhibition of estrone sulfatase, with the most potent inhibitor being 667COUMATE which has an IC50 of 8 nM, some 3-fold lower than that for EMATE (25 nM). In addn., 667COUMATE was also found to inhibit DHEA-sulfatase some 25-fold more potently than EMATE in a placental microsome prepn. Like EMATE, 667COUMATE acts in a time- and concn.-dependent manner, suggesting that it is an active site-directed inhibitor. However, in contrast to EMATE, 667COUMATE has the important advantage of not being estrogenic. In addn., the authors propose several diverse mechanisms of action for this active site-directed steroid sulfatase inhibitor in the light of recent publications on the crystal structures of human arylsulfatases A and B and the catalytic site topol. for the hydrolysis of a sulfate ester. Conclusions: A highly potent non-steroidal, non-estrogenic and irreversible steroid sulfatase inhibitor has been developed. Several mechanisms of action for an active site-directed steroid sulfatase inhibitor are proposed. With 667COUMATE now in pre-clin. development for clin. trial, this should allow the biol. and/or clin. significance of steroid sulfatase inhibitors in the treatment of postmenopausal women with hormone-dependent breast cancer and other therapeutic indications to be fully evaluated.

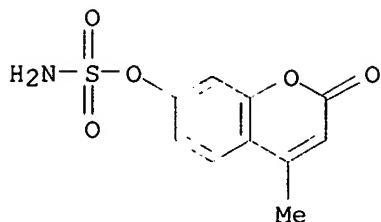
IT 136167-05-0 175694-72-1 203389-00-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(potent active site-directed inhibition of steroid sulfatase by tricyclic coumarin-based sulfamates in relation to structure and breast cancer treatment and estrogenic activity)

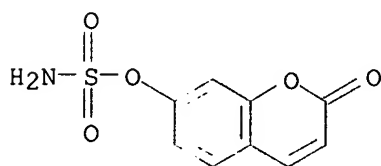
RN 136167-05-0 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



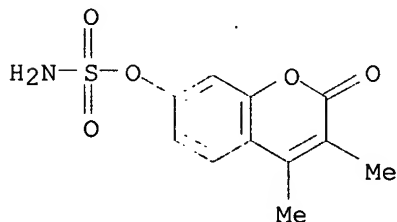
RN 175694-72-1 CAPLUS

CN Sulfamic acid, 2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 203389-00-8 CAPLUS

CN Sulfamic acid, 3,4-dimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



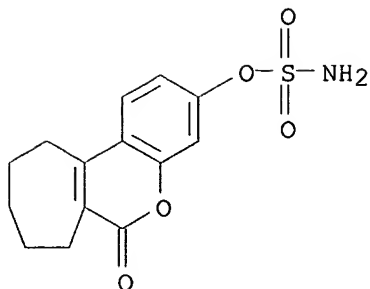
IT 288628-05-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(potent active site-directed **inhibition of steroid sulfatase** by tricyclic coumarin-based sulfamates in relation to structure and breast cancer treatment and estrogenic activity)

RN 288628-05-7 CAPLUS

CN Sulfamic acid, 6,7,8,9,10,11-hexahydro-6-oxobenzo[b]cyclohepta[d]pyran-3-yl ester (9CI) (CA INDEX NAME)



IT 319929-08-3P

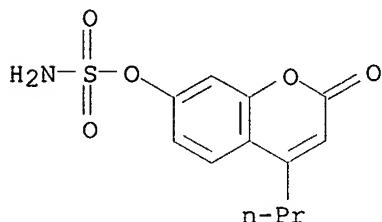
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(potent active site-directed **inhibition of steroid**

sulfatase by tricyclic coumarin-based sulfamates in relation to structure and breast cancer treatment and estrogenic activity)

RN 319929-08-3 CAPLUS

CN Sulfamic acid, 2-oxo-4-propyl-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



IT 288628-03-5P 288628-04-6P 288628-06-8P

288628-07-9P 319929-07-2P 319929-09-4P

319929-10-7P

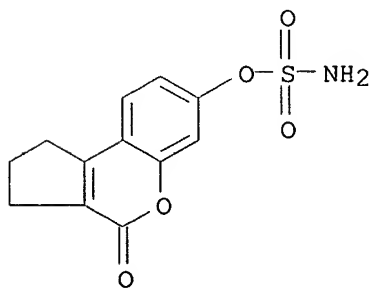
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(potent active site-directed **inhibition of steroid**

sulfatase by tricyclic coumarin-based sulfamates in relation to structure and breast cancer treatment and estrogenic activity)

RN 288628-03-5 CAPLUS

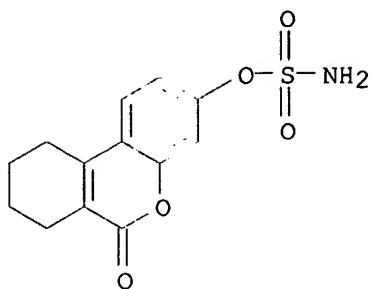
CN Sulfamic acid, 1,2,3,4-tetrahydro-4-oxocyclopenta[c][1]benzopyran-7-yl ester (9CI) (CA INDEX NAME)



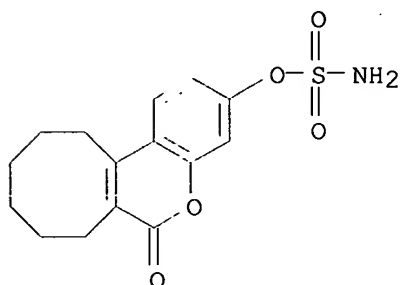
RN 288628-04-6 CAPLUS

CN Sulfamic acid, 7,8,9,10-tetrahydro-6-oxo-6H-dibenzo[b,d]pyran-3-yl ester

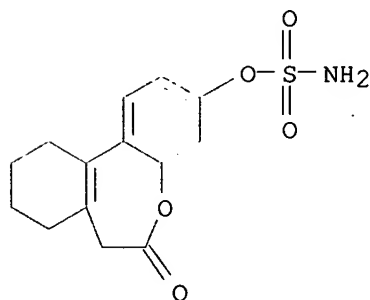
(9CI) (CA INDEX NAME)



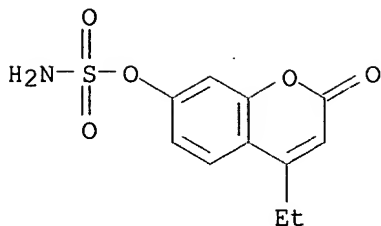
RN 288628-06-8 CAPLUS
CN Sulfamic acid, 7,8,9,10,11,12-hexahydro-6-oxo-6H-benzo[b]cycloocta[d]pyran-3-yl ester (9CI) (CA INDEX NAME)



RN 288628-07-9 CAPLUS
CN Sulfamic acid, 6,7,8,9,10,11-hexahydro-6-oxodibenz[b,d]oxepin-3-yl ester (9CI) (CA INDEX NAME)

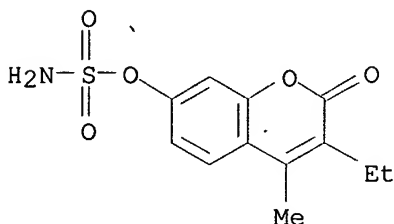


RN 319929-07-2 CAPLUS
CN Sulfamic acid, 4-ethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



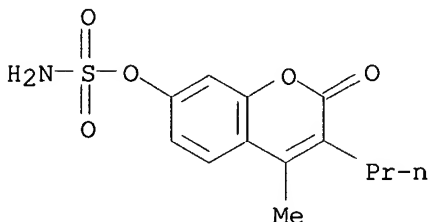
RN 319929-09-4 CAPLUS

CN Sulfamic acid, 3-ethyl-4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI)
(CA INDEX NAME)



RN 319929-10-7 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-3-propyl-2H-1-benzopyran-7-yl ester (9CI)
(CA INDEX NAME)



IT 9025-62-1, Oestrone sulphatase

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(potent active site-directed **inhibition** of **steroid sulfatase** by tricyclic coumarin-based sulfamates in relation to structure and breast cancer treatment and estrogenic activity)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:791407 CAPLUS

DOCUMENT NUMBER: 134:13162

TITLE: Stimulation of MCF-7 breast cancer cell proliferation by estrone sulfate and dehydroepiandrosterone sulfate: **inhibition** by novel non-steroidal **steroid sulfatase inhibitors**

AUTHOR(S): Billich, Andreas; Nussbaumer, Peter; Lehr, Philipp

CORPORATE SOURCE: Novartis Research Institute Vienna, Vienna, A-1235,

SOURCE: Austria
Journal of Steroid Biochemistry and Molecular Biology
(2000), 73(5), 225-235
CODEN: JSBBEZ; ISSN: 0960-0760
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Steroid sulfatase (STS) regulates the formation of active steroids from systemic precursors, such as estrone sulfate and dehydroepiandrosterone sulfate (DHEAS). In breast tissues, this pathway is a source for local prodn. of estrogens, which support the growth of endocrine-dependent tumors. Therefore, inhibitors of STS could have therapeutic potential. In this study, the authors report on substituted chromenone sulfamates as a novel class of non-steroidal irreversible inhibitors of STS. The compds. are substantially more potent (6- to 80-fold) than previously described types of non-steroidal inhibitors when tested against purified STS. In MCF-7 breast cancer cells, they inhibit STS activity with IC50 below 100 pM. Importantly, the compds. also potently block estrone sulfate-stimulated growth of MCF-7 cells, again with IC50 below 100 pM. For one compd., the authors also obsd. a lack of any estrogenic effect at high concns. (1 .mu.M). The authors also demonstrate for the first time that STS inhibitors can block the DHEAS-stimulated growth of MCF-7 cells. Interestingly, this cannot be achieved with specific inhibitors of the aromatase, suggesting that stimulation of MCF-7 cell growth by DHEAS follows an aromatase-independent pathway. This gives further justification to consider steroid sulfatase inhibitors as potential drugs in the therapy of breast cancer.

IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; non-steroidal steroid
sulfatase inhibitors effect on MCF-7 breast cancer
cell proliferation stimulated by estrone sulfate and
dehydroepiandrosterone sulfate)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

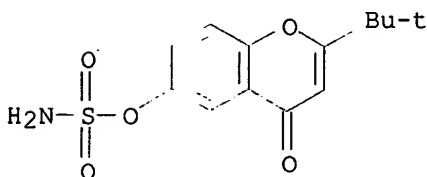
IT 247069-99-4P 247070-10-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(non-steroidal steroid sulfatase inhibitors
effect on MCF-7 breast cancer cell proliferation stimulated by estrone
sulfate and dehydroepiandrosterone sulfate)

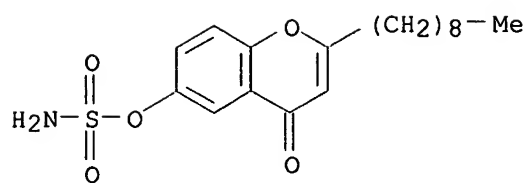
RN 247069-99-4 CAPLUS

CN Sulfamic acid, 2-(1,1-dimethylethyl)-4-oxo-4H-1-benzopyran-6-yl ester
(9CI) (CA INDEX NAME)



RN 247070-10-6 CAPLUS

CN Sulfamic acid, 2-nonyl-4-oxo-4H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



IT 136167-05-0 148672-09-7, Estrone-3-O-sulfamate

186303-55-9

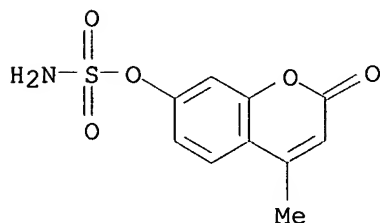
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(non-steroidal **steroid sulfatase inhibitors**)

effect on MCF-7 breast cancer cell proliferation stimulated by estrone sulfate and dehydroepiandrosterone sulfate)

RN 136167-05-0 CAPLUS

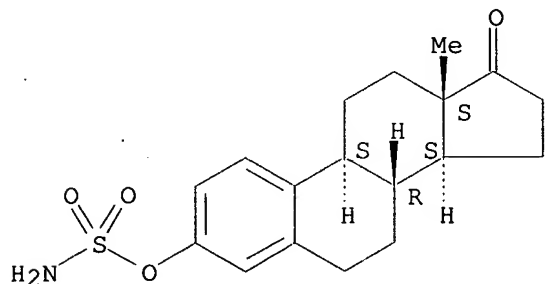
CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 148672-09-7 CAPLUS

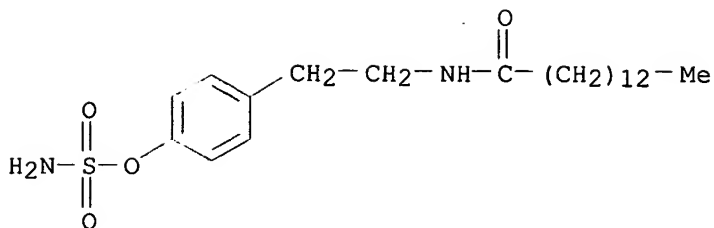
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 186303-55-9 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxotetradecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:646026 CAPLUS

DOCUMENT NUMBER: 133:222880

TITLE: Preparation of novel estradiol derivatives as **steroid sulfatase inhibitors**

INVENTOR(S): Jinbo, Yoshikazu; Inoue, Yoshimasa

PATENT ASSIGNEE(S): Nippon Organon K. K., Japan

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000053620	A1	20000914	WO 2000-JP1410	20000308

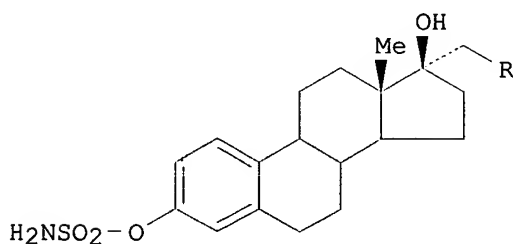
W: JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: JP 1999-62921 A 19990310

OTHER SOURCE(S): MARPAT 133:222880

GI



I

AB Estradiol derivs. represented by general formula (I; wherein R is optionally substituted phenyl) are prepd. These derivs. I act as steroid sulfatase inhibitors which suppress the prodn. of estrogens and thus are efficacious against estrone-dependent diseases such as mammary cancer, **endometrial** cancer, **endometriosis**, uterus myoma and so on. Thus, 6.00 g 17.alpha.-(4-tert-butylbenzyl)-17.beta.-hydroxyestra-1,3,5(10)-trien-3-ol was stirred with 636 mg 60% NaH in DMF at room temp. for 1 h, followed by adding 3.32 g sulfamoyl chloride with stirring under ice-cooling, and the resulting mixt. was stirred for 2 h 10 min under ice-cooling to give 1.97 g I (4-tert-butylphenyl) (II). II and I (4-isopropylphenyl) showed IC50 of 0.04.+-.0.01 and 0.03.+-.0.01 .mu.g/mL, resp., against steroid sulfatase.

IT 234779-16-9P 291307-86-3P 291307-87-4P
291307-90-9P 291307-93-2P 291307-95-4P
291307-98-7P 291308-01-5P 291308-04-8P
291308-08-2P 291308-11-7P 291308-14-0P

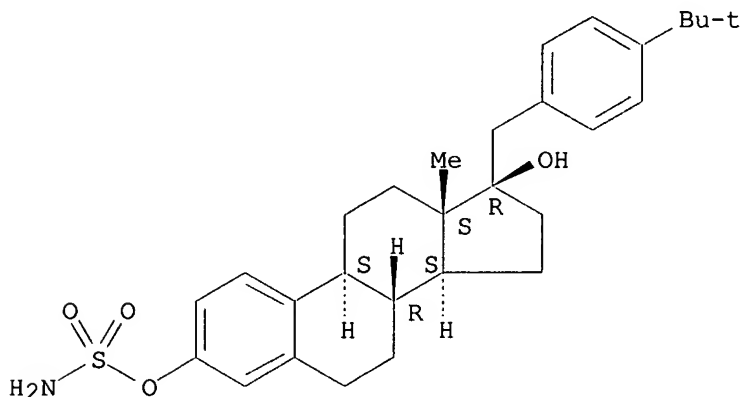
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(prepn. of novel estradiol derivs. as **steroid**
sulfatase inhibitors for therapeutics)

RN 234779-16-9 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1,1-dimethylethyl)phenyl]methyl]-
, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

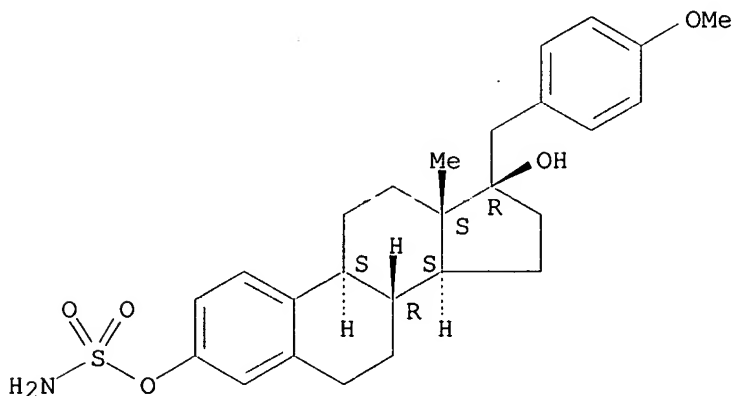
Absolute stereochemistry.



RN 291307-86-3 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(4-methoxyphenyl)methyl]-,
3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

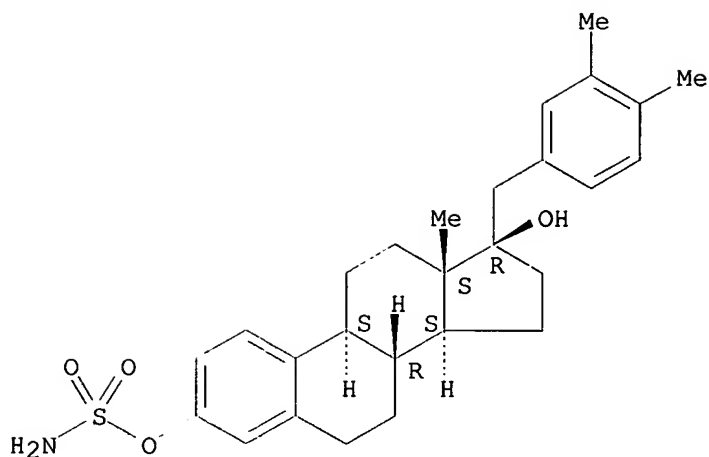
Absolute stereochemistry.



RN 291307-87-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(3,4-dimethylphenyl)methyl]-,
3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

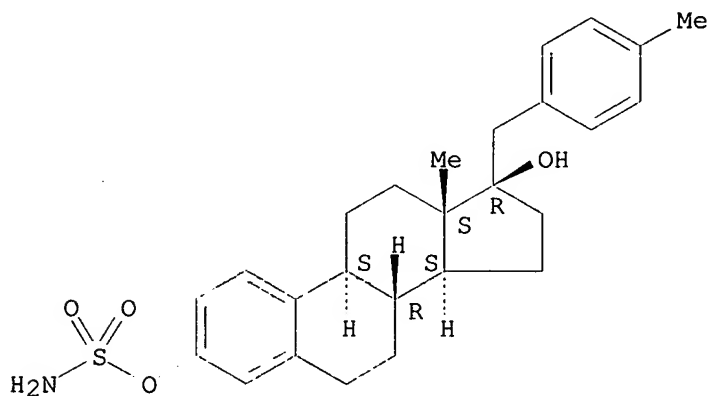
Absolute stereochemistry.



RN 291307-90-9 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(4-methylphenyl)methyl]-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

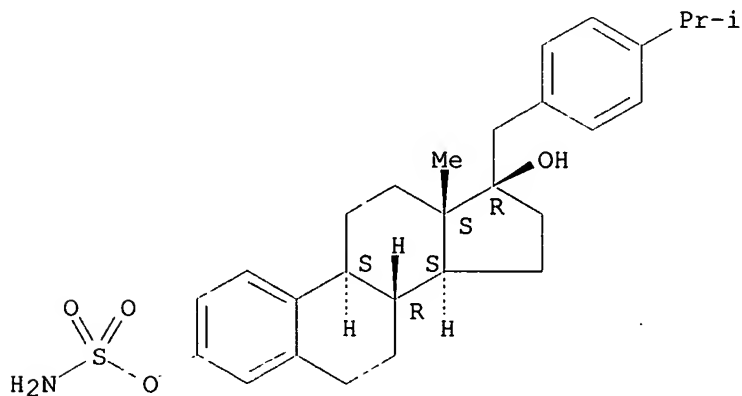
Absolute stereochemistry.



RN 291307-93-2 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[[4-(1-methylethyl)phenyl]methyl]-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

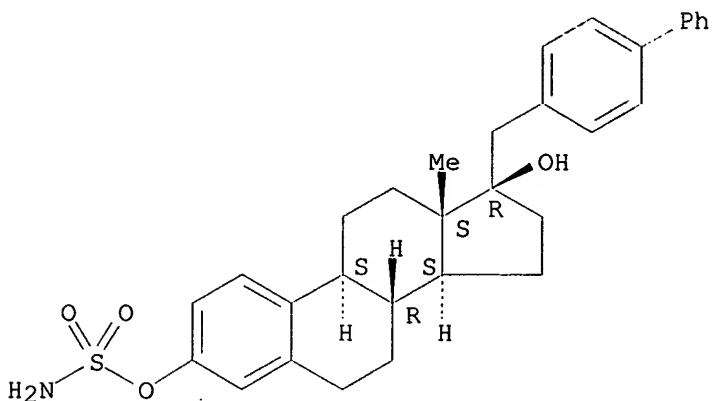
Absolute stereochemistry.



RN 291307-95-4 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-([1,1'-biphenyl]-4-ylmethyl)-,
3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

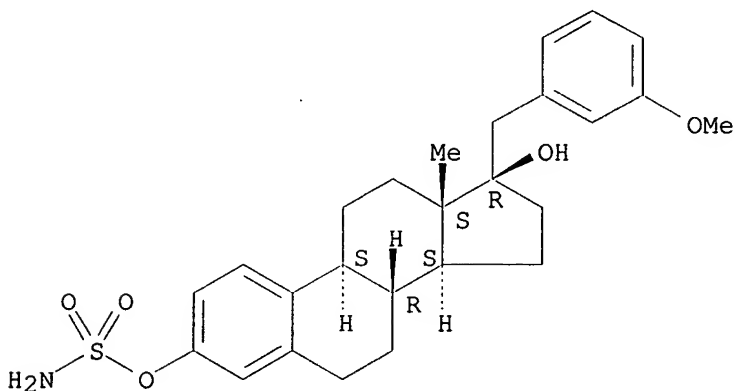
Absolute stereochemistry.



RN 291307-98-7 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(3-methoxyphenyl)methyl]-,
3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

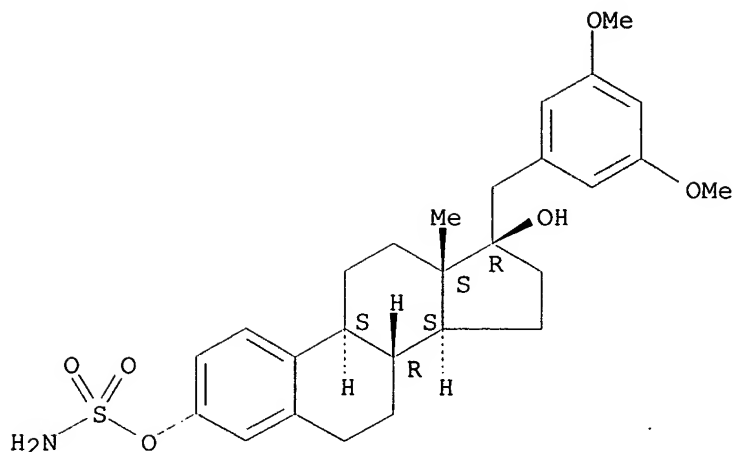
Absolute stereochemistry.



RN 291308-01-5 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(3,5-dimethoxyphenyl)methyl]-,
3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

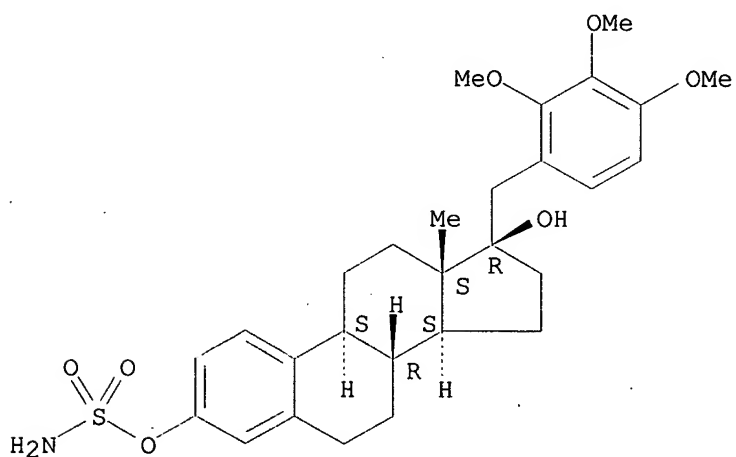
Absolute stereochemistry.



RN 291308-04-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(2,3,4-trimethoxyphenyl)methyl]-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

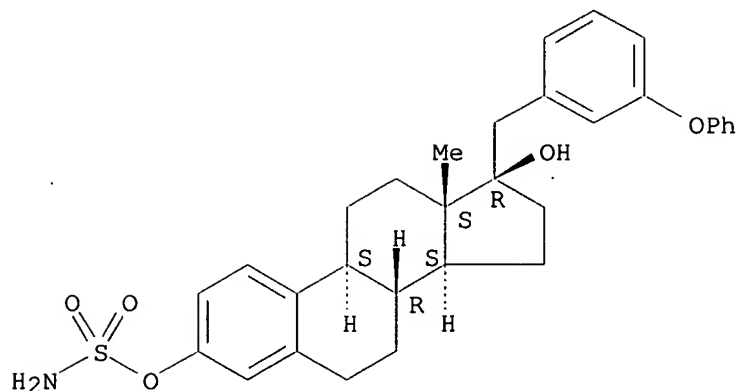
Absolute stereochemistry.



RN 291308-08-2 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol, 17-[(3-phenoxyphenyl)methyl]-, 3-sulfamate, (17.beta.)- (9CI) (CA INDEX NAME)

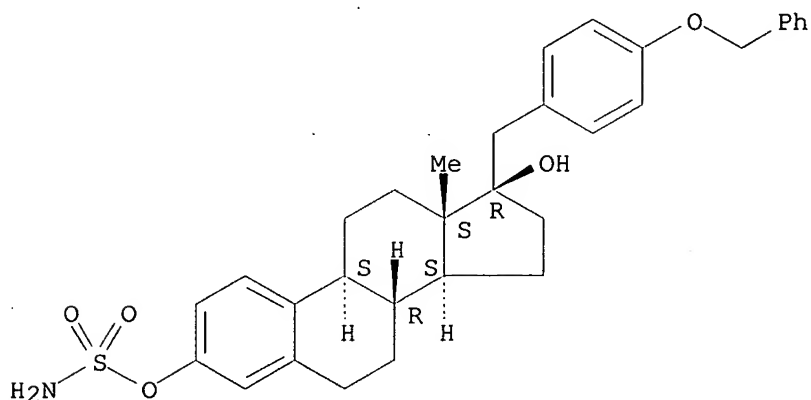
Absolute stereochemistry.



RN 291308-11-7 CAPLUS

CN Estradiol, 17-[[4-(phenylmethoxy)phenyl]methyl]-, 3-sulfamate, (17.β.)- (9CI) (CA INDEX NAME)

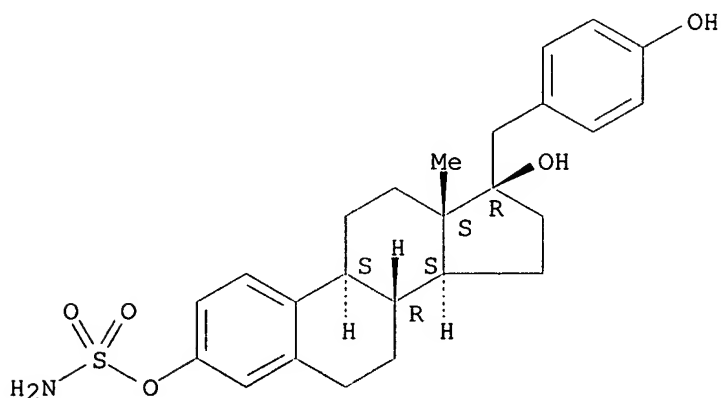
Absolute stereochemistry.



RN 291308-14-0 CAPLUS

CN Estradiol, 17-[(4-hydroxyphenyl)methyl]-, 3-sulfamate, (17.β.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 9025-62-1, Steroid sulfatase

RL: BPR (Biological process); BSU (Biological study, unclassified); MSC

(Miscellaneous); BIOL (Biological study); PROC (Process)
(prepn. of novel estradiol derivs. as steroid
sulfatase inhibitors for therapeutics)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 22 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:457061 CAPLUS

DOCUMENT NUMBER: 133:73934

TITLE: Preparation of arylcoumarins which modulate gene
expression through the estrogen receptor

INVENTOR(S): Stein, Bernd M.; Anderson, David W.; Gayo, Leah M.;
Sutherland, May S.; Doubleday, Mary; Shevlin,
Graziella I.; Kois, Adam; Khammungkhune, Sak; Jalluri,
Ravi Kumar; Bhagwat, Shripad S.; McKie, Jeffrey A.

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

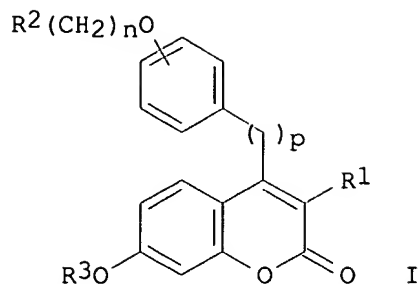
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039120	A2	20000706	WO 1999-US31290	19991230
WO 2000039120	A3	20001026		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1140889	A2	20011010	EP 1999-968578	19991230
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
US 6291456	B1	20010918	US 2000-492939	20000127
US 6331562	B1	20011218	US 2000-611156	20000706
US 6372739	B1	20020416	US 2001-897048	20010702
PRIORITY APPLN. INFO.:			US 1998-114472P	P 19981230
			US 1999-475776	B2 19991230
			WO 1999-US31290	W 19991230
			US 2000-492939	A2 20000127

OTHER SOURCE(S): MARPAT 133:73934

GI



AB Title compds. [I; n = 0-4; p = 0-2; R1 = (substituted) aryl, aralkyl, heterocyclyl, heterocyclylalkyl; R2 = NRaRb, (substituted) heterocyclyl; Ra, Rb = H, (substituted) alkyl, aryl, heterocyclyl; R3 = H, R4, COR4, CO2R4, CONHR4, etc.; R4 = (substituted) alkyl, aryl, aralkyl, heterocyclyl], were prepd. Thus, 3-phenyl-4-(4-hydroxybenzyl)-7-methoxycoumarin (prepn. given) was refluxed with N-(2-chloroethyl)piperidine and K2CO3 in acetone to give 3-phenyl-4-[4-[2-(piperidin-1-yl)ethoxy]benzyl]-7-methoxycoumarin. This was refluxed with HBr in HOAc to give 3-phenyl-4-(4-hydroxybenzyl)-7-hydroxycoumarin, which bound to ER-.alpha. receptors with Ki = 1.4 nM.

IT 280137-99-7P 280138-12-7P

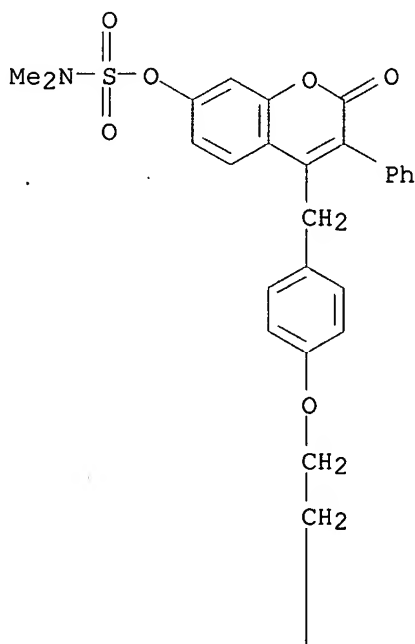
RL: **BAC (Biological activity or effector, except adverse)**; BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of arylcoumarins which modulate gene expression through the estrogen receptor)

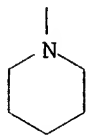
RN 280137-99-7 CAPLUS

CN Sulfamic acid, dimethyl-, 2-oxo-3-phenyl-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A

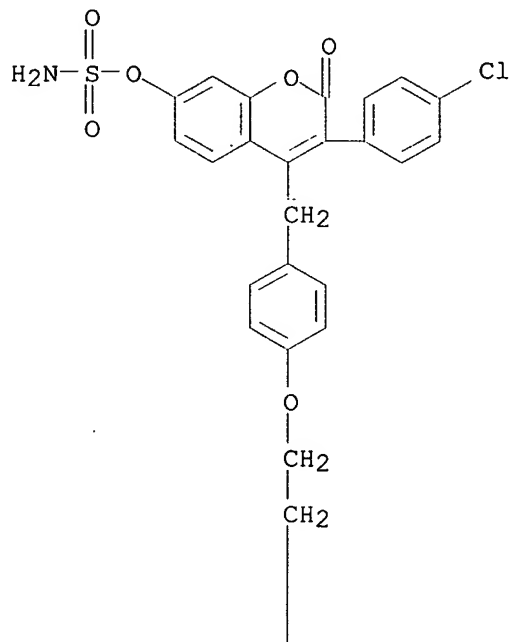


PAGE 2-A

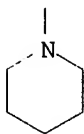


RN 280138-12-7 CAPLUS
CN Sulfamic acid, 3-(4-chlorophenyl)-2-oxo-4-[[4-[2-(1-piperidinyl)ethoxy]phenyl]methyl]-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L54 ANSWER 23 OF 44 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:10623 CAPLUS
DOCUMENT NUMBER: 132:78747
TITLE: Preparation and formulation of **steroid
sulphatase inhibitors** for use in
cancer treatment

Searched by Barb O'Bryen, STIC 308-4291

INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd
PATENT ASSIGNEE(S): Imperial College of Science Technology and Medicine,
UK
SOURCE: U.S., 56 pp., Cont.-in-part of U.S. 5,830,886.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

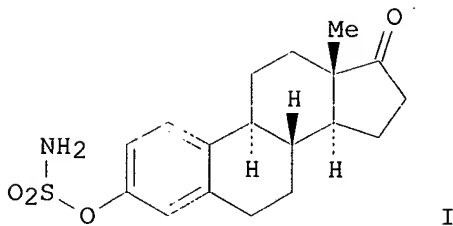
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6011024	A	20000104	US 1998-111927	19980708
EP 921130	A2	19990609	EP 1998-204340	19920828
EP 921130	A3	20010905		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
EP 928609	A2	19990714	EP 1998-204337	19920828
EP 928609	A3	20011107		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
JP 2000038341	A2	20000208	JP 1999-211413	19920828
EP 982032	A2	20000301	EP 1999-203449	19920828
EP 982032	A3	20020320		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
JP 2000355542	A2	20001226	JP 2000-163410	19920828
JP 2000355598	A2	20001226	JP 2000-163411	19920828
EP 1099706	A2	20010516	EP 2000-204525	19920828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
US 5616574	A	19970401	US 1994-196192	19941227
US 5830886	A	19981103	US 1995-458352	19950602
WO 9730041	A1	19970821	WO 1997-GB444	19970217
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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WO 9732872	A1	19970912	WO 1997-GB600	19970304
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RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
WO 9824802	A2	19980611	WO 1997-GB3352	19971204
WO 9824802	A3	19980827		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6159960	A	20001212	US 1998-193969	19981118
AU 9910077	A1	19990304	AU 1999-10077	19990111
AU 717116	B2	20000316		
US 6187766	B1	20010213	US 1999-238345	19990127
AU 726811	B2	20001123	AU 2000-10130	20000106
US 2001018435	A1	20010830	US 2001-794853	20010227

PRIORITY APPLN. INFO.:

GB 1991-18478	A	19910829
US 1994-196192	A3	19941227
US 1995-458352	A2	19950602
WO 1997-GB444	A2	19970217
WO 1997-GB600	A2	19970304
WO 1997-GB3352	A2	19971204
EP 1992-918285	A3	19920828
EP 1998-204340	A3	19920828
JP 1993-505032	A3	19920828
WO 1992-GB1587	W	19920828
GB 1996-3325	A	19960216
GB 1996-4709	A	19960305
GB 1996-5725	A	19960319
GB 1996-25334	A	19961205
AU 1998-71952	A3	19980618
US 1998-111927	A2	19980708
AU 1999-10077	A	19990111
US 1999-238345	A3	19990127
US 2000-579163	A3	20000525

OTHER SOURCE(S):
GI

MARPAT 132:78747



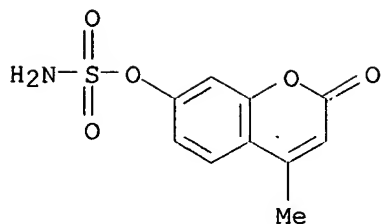
AB Steroid sulfatase inhibitors, R1R2NSO2OR [R = arom. ring, such as Ph, estra-1,3,5(10)-trien-3-yl, coumarinyl, flavonoid; R1, R2 = H, alkyl, alkenyl, cycloalkyl, aryl; R1R2 = alkylene], were prepd. for use in the treatment of estrogen dependent tumors. Thus, sulfamate I was prepd. by sulfamoylation of oestrone with sulfamoyl chloride. The prepd. compds. were tested for steroid sulfatase enzyme, E.C. 3.1.6.2, and aromatase inhibiting activity.

IT 136167-05-0P 148672-09-7P 148672-10-0P
148672-11-1P 175694-72-1P 175694-73-2P
175694-74-3P 185910-34-3P 196815-14-2P
196815-17-5P 196815-21-1P 196815-29-9P
196815-32-4P 196815-35-7P 196815-37-9P
208924-81-6P 208924-82-7P 208924-83-8P
208924-84-9P 208924-85-0P 208924-86-1P
208924-87-2P 208924-88-3P 243129-60-4P
243129-61-5P 253601-93-3P 253601-94-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and formulation of **steroid sulfatase inhibitors** for use in treatment of cancer)

RN 136167-05-0 CAPLUS

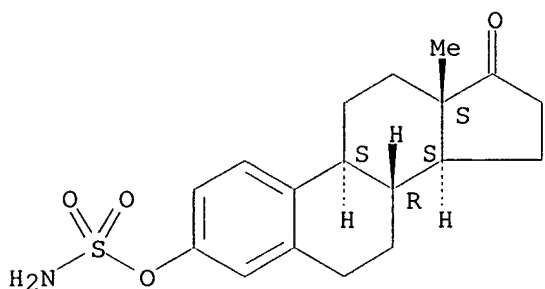
CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 148672-09-7 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

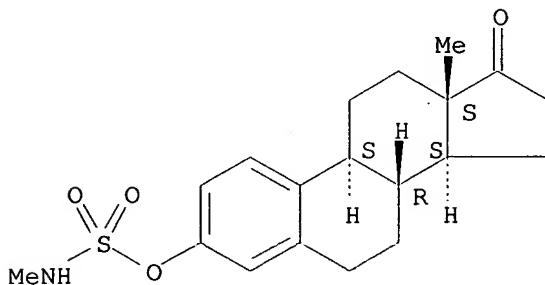
Absolute stereochemistry. Rotation (+).



RN 148672-10-0 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[[[(methylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

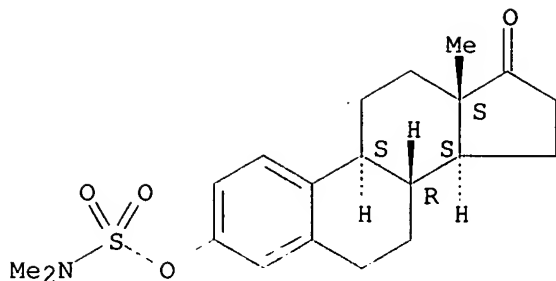
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

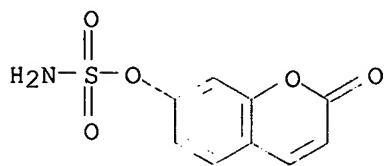
CN Estrone-1,3,5(10)-trien-17-one, 3-[[[(dimethylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



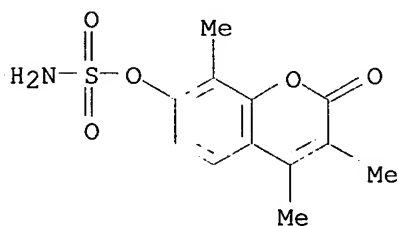
RN 175694-72-1 CAPLUS

CN Sulfamic acid, 2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



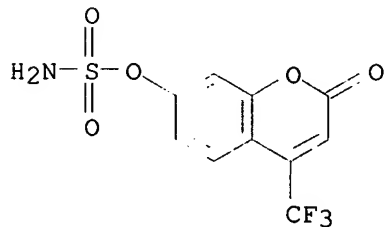
RN 175694-73-2 CAPLUS

CN Sulfamic acid, 3,4,8-trimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 175694-74-3 CAPLUS

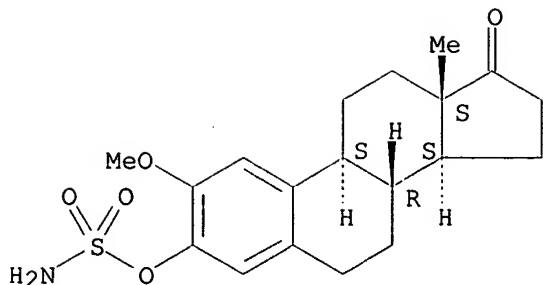
CN Sulfamic acid, 2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 185910-34-3 CAPLUS

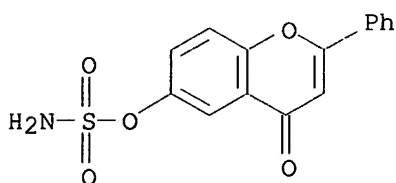
CN Estradiol, 3-[(aminosulfonyl)oxy]-2-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



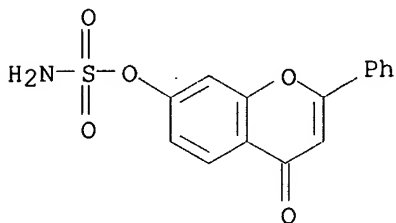
RN 196815-14-2 CAPLUS

CN Sulfamic acid, 4-oxo-2-phenyl-4H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



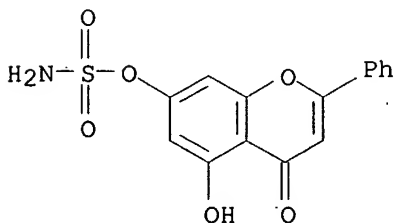
RN 196815-17-5 CAPLUS

CN Sulfamic acid, 4-oxo-2-phenyl-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



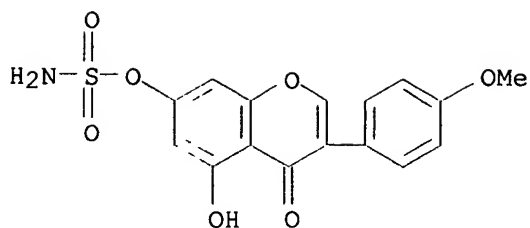
RN 196815-21-1 CAPLUS

CN Sulfamic acid, 5-hydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)

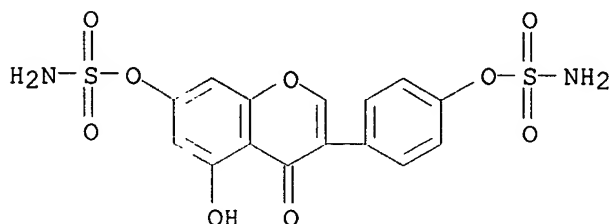


RN 196815-29-9 CAPLUS

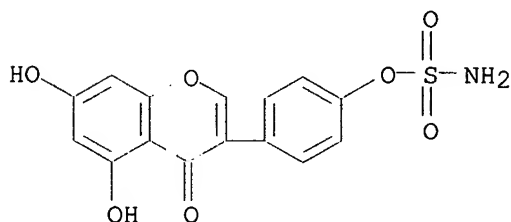
CN Sulfamic acid, 5-hydroxy-3-(4-methoxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



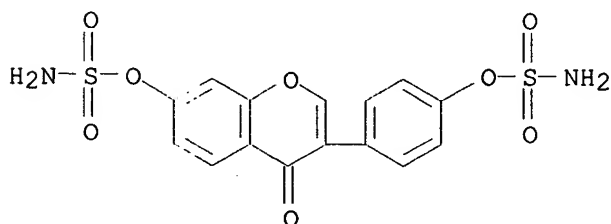
RN 196815-32-4 CAPLUS
CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-5-hydroxy-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 196815-35-7 CAPLUS
CN Sulfamic acid, 4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-3-yl)phenyl ester (9CI) (CA INDEX NAME)

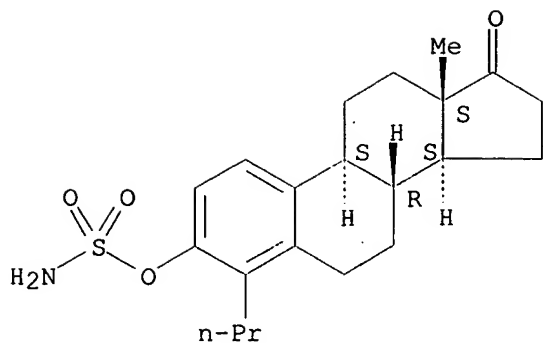


RN 196815-37-9 CAPLUS
CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 208924-81-6 CAPLUS
CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-4-propyl- (9CI) (CA INDEX NAME)

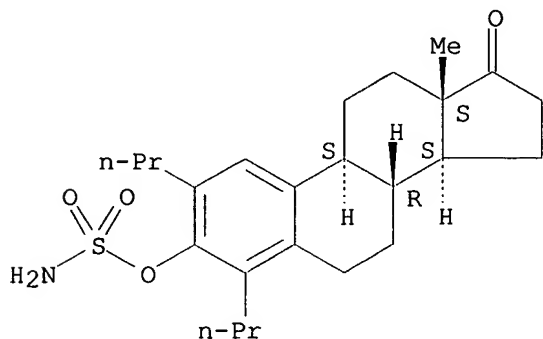
Absolute stereochemistry.



RN 208924-82-7 CAPLUS

CN Estradiol 3-(aminosulfonyl)-2,4-dipropyl ether (9CI)
(CA INDEX NAME)

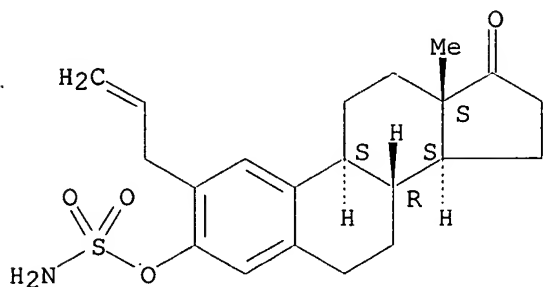
Absolute stereochemistry.



RN 208924-83-8 CAPLUS

CN Estradiol 3-(aminosulfonyl)-2-(2-propenyl) ether (9CI)
(CA INDEX NAME)

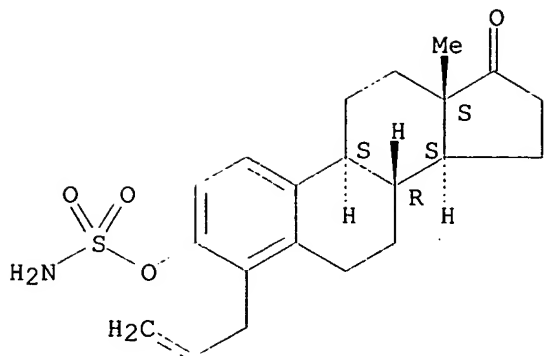
Absolute stereochemistry.



RN 208924-84-9 CAPLUS

CN Estradiol 3-(aminosulfonyl)-4-(2-propenyl) ether (9CI)
(CA INDEX NAME)

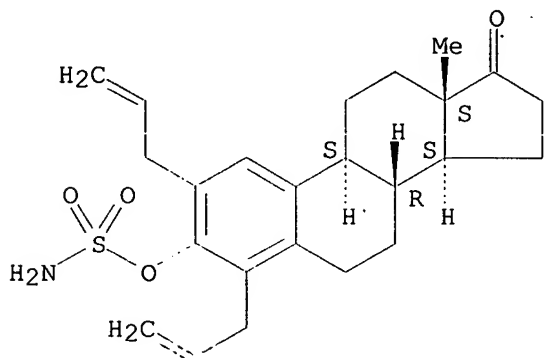
Absolute stereochemistry.



RN 208924-85-0 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2,4-bis(2-propenyl)- (9CI) (CA INDEX NAME)

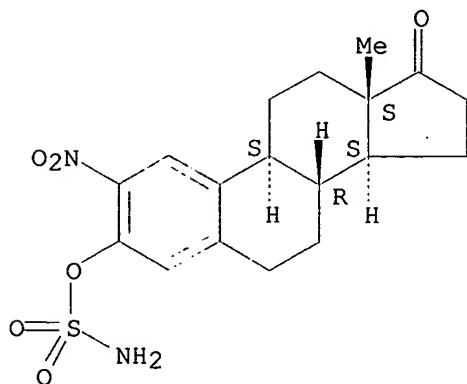
Absolute stereochemistry.



RN 208924-86-1 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-nitro- (9CI) (CA INDEX NAME)

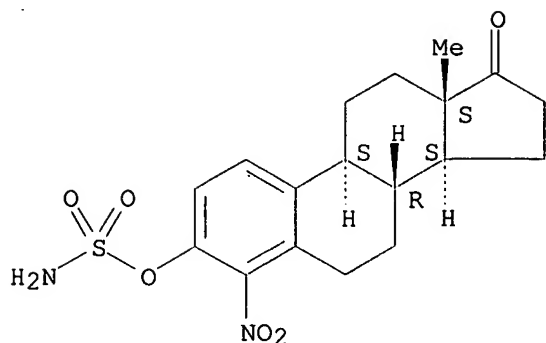
Absolute stereochemistry.



RN 208924-87-2 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-4-nitro- (9CI) (CA INDEX NAME)

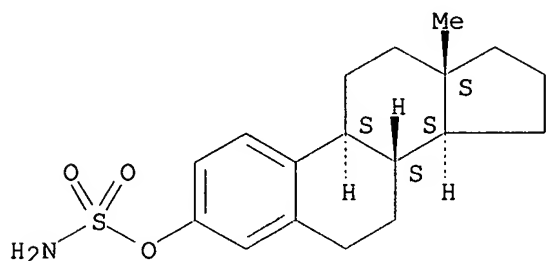
Absolute stereochemistry.



RN 208924-88-3 CAPLUS

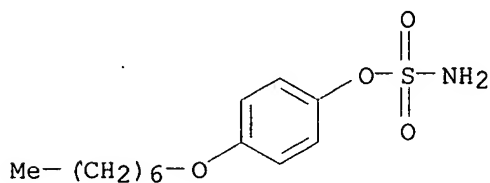
CN Estrone-1,3,5(10)-trien-3-ol, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 243129-60-4 CAPLUS

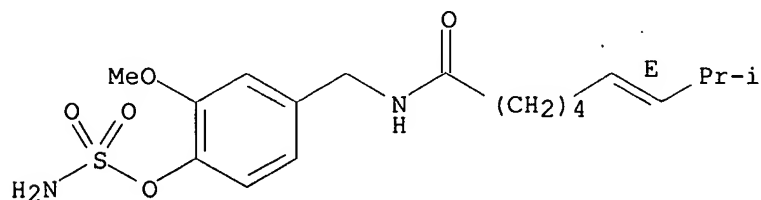
CN Sulfamic acid, 4-(heptyloxy)phenyl ester (9CI) (CA INDEX NAME)



RN 243129-61-5 CAPLUS

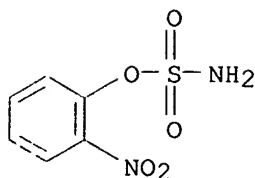
CN Sulfamic acid, 2-methoxy-4-[[[(6E)-8-methyl-1-oxo-6-nonenyl]amino]methyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



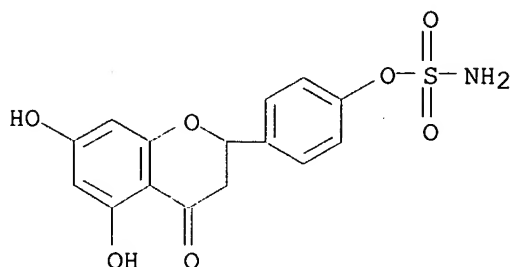
RN 253601-93-3 CAPLUS

CN Sulfamic acid, 2-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 253601-94-4 CAPLUS

CN Sulfamic acid, 4-(3,4-dihydro-5,7-dihydroxy-4-oxo-2H-1-benzopyran-2-yl)phenyl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, E.C. 3.1.6.2

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(prepn. and formulation of **steroid sulfatase inhibitors** for use in treatment of cancer)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:795665 CAPLUS

DOCUMENT NUMBER: 132:30824

TITLE: Pharmaceutical composition with tumor necrosis factor- α . or other biological response modifier and 2-methoxyestrone-3-O-sulphamate for inhibition of estrone sulphatase and treatment of cancer

INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Sterix Limited, UK

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964013	A1	19991216	WO 1999-GB1835	19990610
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,				

MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9942807 A1 19991230 AU 1999-42807 19990610

EP 1085876 A1 20010328 EP 1999-955428 19990610

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRIORITY APPLN. INFO.:

GB 1998-12535 A 19980610

GB 1999-10167 A 19990430

WO 1999-GB1835 W 19990610

OTHER SOURCE(S): MARPAT 132:30824

AB The compn. comprises a sulfamate compd., e.g. 2-methoxyestrone-3-O-sulfamate, and a biol. response modifier, e.g., TNF. The compn. is useful for the prevention and/or treatment of cancer.

IT 185910-34-3P

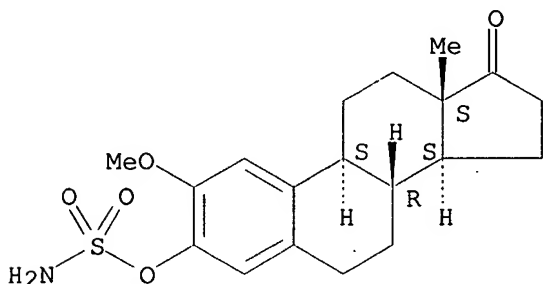
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(methoxyestrone sulfamate and TNF or other biol. response modifier for inhibition of estrone sulfatase and treatment of cancer)

RN 185910-34-3 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-2-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 148672-09-7, Estrone-3-sulfamate

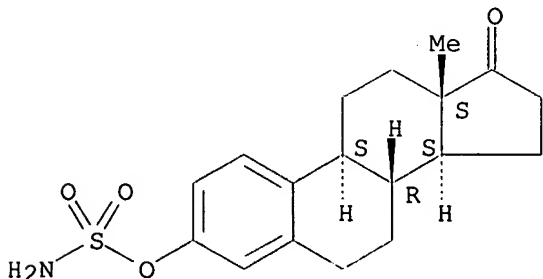
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methoxyestrone sulfamate and TNF or other biol. response modifier for inhibition of estrone sulfatase and treatment of cancer)

RN 148672-09-7 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 9025-62-1, E.C. 3.1.6.2
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(methoxyestrone sulfamate and TNF or other biol. response modifier for **inhibition** of estrone sulfatase and treatment of cancer)
RN 9025-62-1 CAPLUS
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 25 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:437570 CAPLUS

DOCUMENT NUMBER: 131:208593

TITLE: Recent advances in the development of **steroid sulfatase inhibitors**

AUTHOR(S): Purohit, A.; Hejaz, H. A. M.; Woo, L. W. L.; Van Strien, A. E.; Potter, B. V. L.; Reed, M. J.

CORPORATE SOURCE: Endocrinology and Metabolic Medicine, Imperial College School of Medicine, St Mary's Hospital, London, W2 1NY, UK

SOURCE: Journal of Steroid Biochemistry and Molecular Biology (1999), 69(1-6), 227-238
CODEN: JSBBEZ; ISSN: 0960-0760

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

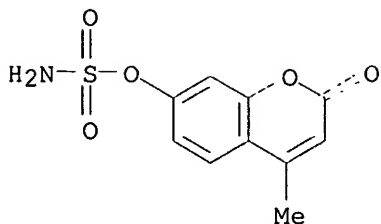
AB Inhibition of steroid sulfatase is now an important target for the development of new drugs for the treatment of women with endocrine-dependent breast tumors. The first potent sulfatase inhibitor identified, estrone-3-O-sulfamate (EMATE) proved, unexpectedly, to be estrogenic. A no. of strategies have therefore been adopted to design and synthesize a nonoestrogenic inhibitor. For this, a no. of modifications have been made to the A and D rings of the estrone nucleus. Methoxyestrone-3-O-sulfamate, while having similar in vitro and in vivo sulfatase inhibitory potency to that of EMATE, was devoid of estrogenic activity when tested at 2 mg/kg in an ovariectomized rat uterine wt. gain assay. 17-Deoxyestrone-3-O-sulfamate was also a potent steroid sulfatase inhibitor and while it was devoid of estrogenic activity when tested at 0.1 mg/kg, did stimulate uterine growth at 1.0 mg/kg. As an alternative approach to the use of steroid-based inhibitors a no. of single ring, bicyclic non-fused ring, and two fused ring sulfamate analogs were designed, synthesized and tested for their ability to inhibit steroid sulfatase activity. In general, although the single ring and bicyclic non-fused ring sulfamate analogs could inhibit sulfatase activity, they were considerably less potent than EMATE. The mono- and bis-sulfamate derivs. of 5,7-dihydroxyisoflavone were relatively potent, inhibiting in vivo steroid sulfatase activity by 62 and 81%, resp., at a single oral dose of 10 mg/kg. A study of the structure-activity relationship of a series of coumarin-based sulfamates has led to the development of a no. of potent non-steroidal inhibitors, one of which has a similar potency to that of EMATE. The identification of potent steroid- and non-steroid-based sulfatase inhibitors will enable the therapeutic value of this therapy to be examd. in the near future.

IT 136167-05-0 148672-09-7, Estrone-3-O-sulfamate
185910-34-3 196815-32-4 196815-35-7
208924-88-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(prepn. and structure-activity relationship of **steroid sulfatase inhibitors**)

RN 136167-05-0 CAPLUS

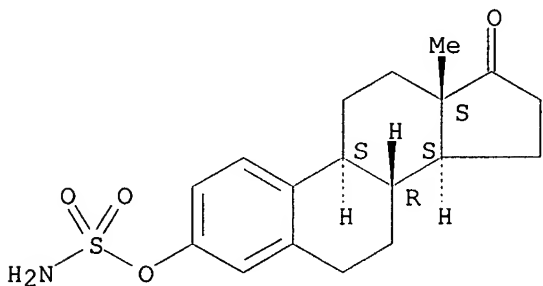
CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 148672-09-7 CAPLUS

CN Estradiol-3-[(aminosulfonyl)oxy] (9CI) (CA INDEX NAME)

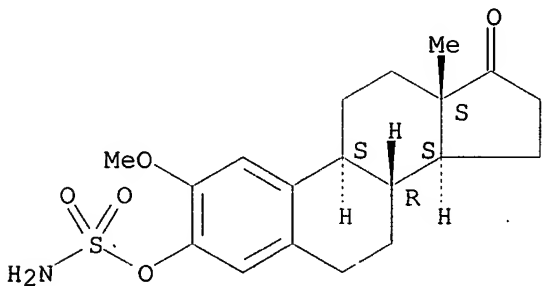
Absolute stereochemistry. Rotation (+).



RN 185910-34-3 CAPLUS

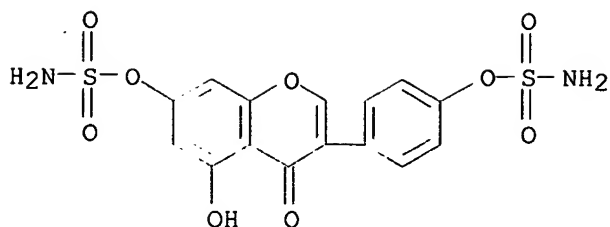
CN Estradiol-3-[(aminosulfonyl)oxy]-2-methoxy (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



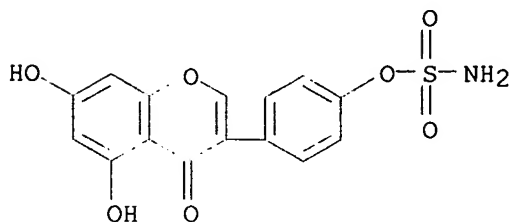
RN 196815-32-4 CAPLUS

CN Sulfamic acid, 4-[7-[(aminosulfonyl)oxy]-5-hydroxy-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)



RN 196815-35-7 CAPLUS

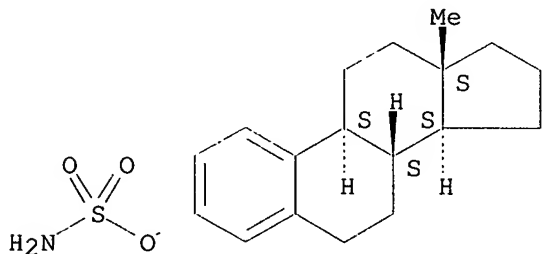
CN Sulfamic acid, 4-(5,7-hydroxy-4-oxo-4H-1-benzopyran-3-yl)phenyl ester
(9CI) (CA INDEX NAME)



RN 208924-88-3 CAPLUS

CN Estra-1,3,5(10)-trien-3-ol, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

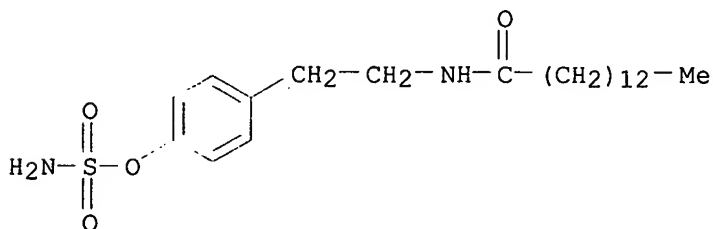


IT 186303-55-9P 243129-60-4P 243129-61-5P
243129-65-9P 243129-67-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and structure-activity relationship of **steroid sulfatase inhibitors**)

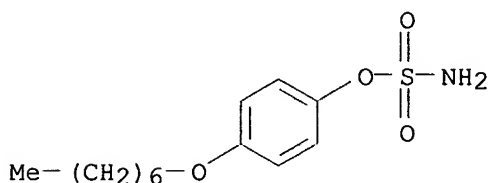
RN 186303-55-9 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxotetradecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



RN 243129-60-4 CAPLUS

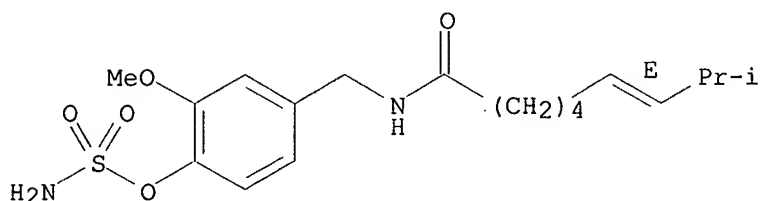
CN Sulfamic acid, 4-(heptyloxy)phenyl ester (9CI) (CA INDEX NAME)



RN 243129-61-5 CAPLUS

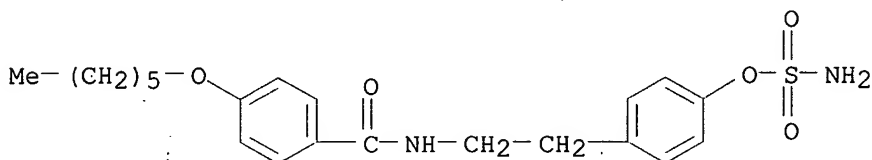
CN Sulfamic acid, 2-methoxy-4-[[[(6E)-8-methyl-1-oxo-6-nonenyl]amino]methyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



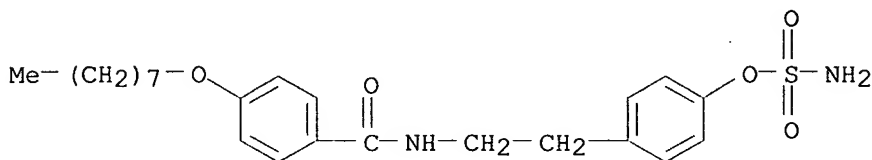
RN 243129-65-9 CAPLUS

CN Sulfamic acid, 4-[2-[[4-(hexyloxy)benzoyl]amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



RN 243129-67-1 CAPLUS

CN Sulfamic acid, 4-[2-[[4-(octyloxy)benzoyl]amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, Steroid sulfatase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(prepn. and structure-activity relationship of steroid sulfatase inhibitors)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:375409 CAPLUS

DOCUMENT NUMBER: 131:19185

TITLE: synthesis and inhibitory activity of estratriene sulfamate derivatives as inhibitors of estrone sulfatase

INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Imperial College of Science, Technology and Medicine, UK; University of Bath

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

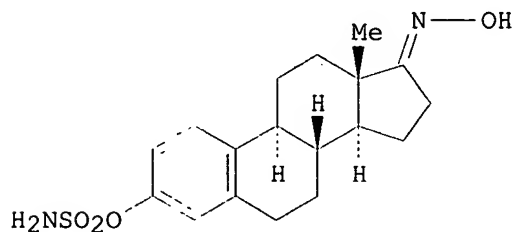
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9927936	A1	19990610	WO 1998-GB3620	19981203
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
GB 2331987	A1	19990609	GB 1997-25749	19971204
AU 9913458	A1	19990616	AU 1999-13458	19981203
EP 1051178	A1	20001115	EP 1998-957034	19981203
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI			
JP 2001524525	T2	20011204	JP 2000-522921	19981203
PRIORITY APPLN. INFO.:			GB 1997-25749 A	19971204
			WO 1998-GB3620 W	19981203
OTHER SOURCE(S):	MARPAT 131:19185			
GI				



AB Synthesis of an estratriene sulfamate oxime (I) suitable for use as an inhibitor of estrone sulfatase (E.C.3.1.6.2) is described. Thus, I is prepd. by oximation of estrone with hydroxylamine hydrochloride to give the anti-oxime. which is reacted with sulfamyl chloride to give I in 25% yield. I shows a 99% inhibition of MCF-7 cells at 10.mu.M.

IT 226701-16-2P, Estrone 17-anti-oxime 3-O-sulfamate

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and inhibitory activity of estratriene sulfamate derivs. as

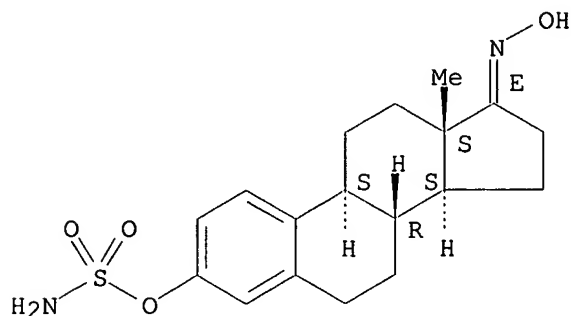
inhibitors of estrone sulfatase)

RN 226701-16-2 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]-, oxime, (17E)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



IT 9025-62-1, Oestrone sulphatase

RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)

(synthesis and **inhibitory** activity of estratriene sulfamate derivs. as **inhibitors** of estrone sulfatase)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:375408 CAPLUS

DOCUMENT NUMBER: 131:19184

TITLE: synthesis and inhibitory activity of estratriene sulfamate derivatives as inhibitors of estrone sulfatase

INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Imperial College of Science, Technology and Medicine, UK; University of Bath

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

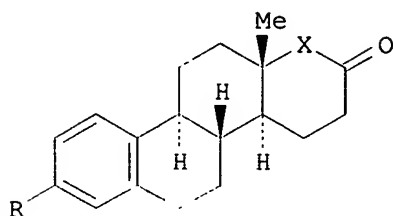
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9927935	A1	19990610	WO 1998-GB3616	19981203
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
GB 2331988	A1	19990609	GB 1997-25750	19971204
AU 9913456	A1	19990616	AU 1999-13456	19981203
EP 1051177	A1	20001115	EP 1998-957031	19981203

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
 JP 2001524524 T2 20011204 JP 2000-522920 19981203
 PRIORITY APPLN. INFO.: GB 1997-25750 A 19971204
 WO 1998-GB3616 W 19981203
 OTHER SOURCE(S): MARPAT 131:19184
 GI



I

AB Synthesis of an estratriene sulfamate compd. (I) [X = O, NH; R = (un)substituted H₂NSO₃] suitable for use as an inhibitor of estrone sulfatase (E.C.3.1.6.2) is described. Thus, I (X = NH, R = H₂NSO₃) (II) is prepd. by oximation of estrone followed by treatment of the oxime with thionyl chloride in dioxane to give the lactam which is reacted with sulfamyl chloride to give II in 64% yield. II shows a 97.3% inhibition of MCF-7 cells at 10.μM.

IT 205118-78-1P 205118-80-5P

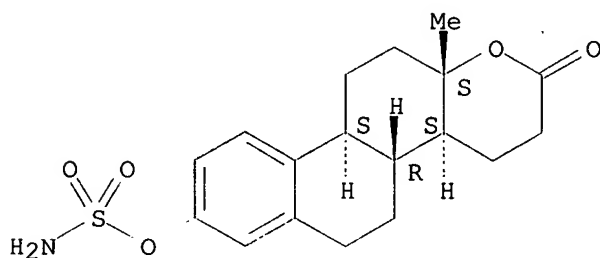
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and inhibitory activity of estratriene sulfamate derivs. as inhibitors of estrone sulfatase)

RN 205118-78-1 CAPLUS

CN Sulfamic acid, (4aS,4bR,10bS,12aS)-3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-2-oxo-2H-phenanthro[2,1-b]pyran-8-yl ester (9CI) (CA INDEX NAME)

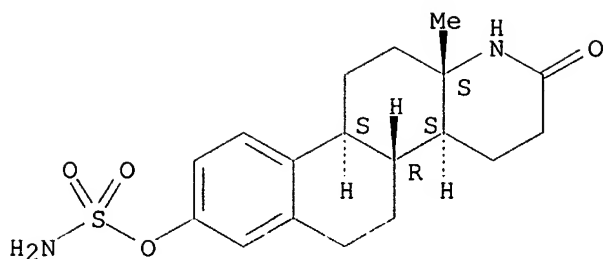
Absolute stereochemistry.



RN 205118-80-5 CAPLUS

CN Sulfamic acid, (4aS,4bR,10bS,12aS)-1,2,3,4,4a,4b,5,6,10b,11,12,12a-dodecahydro-12a-methyl-2-oxonaphtho[2,1-f]quinolin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 9025-62-1, Oestrone sulphotase
RL: BPR (Biological process); BSU (Biological study, unclassified); MSC
(Miscellaneous); BIOL (Biological study); PROC (Process)
(synthesis and **inhibitory** activity of estratriene sulfamate
derivs. as **inhibitors** of estrone sulfatase)
RN 9025-62-1 CAPLUS
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:113666 CAPLUS

DOCUMENT NUMBER: 130:182768

TITLE: Preparation of N-sulfonyl O-carbamoyltyrosine
dipeptide derivatives and analogs as inhibitors of
leukocyte adhesion mediated by VLA-4

INVENTOR(S): Thorsett, Eugene D.; Semko, Christopher M.;
Sarantakis, Dimitrios; Pleiss, Michael A.; Kreft,
Anthony; Konradi, Andrei W.; Grant, Francine S.;
Dressen, Darren B.; Ashwell, Susan; Baudy, Reinhardt
Bernhard; Lombardo, Louis John

PATENT ASSIGNEE(S): Athena Neurosciences, Inc., USA; American Home
Products Corporation

SOURCE: PCT Int. Appl., 386 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9906390	A1	19990211	WO 1998-US15324	19980731
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
ZA 9806830	A	20000502	ZA 1998-6830	19980730
AU 9885849	A1	19990222	AU 1998-85849	19980731
AU 740681	B2	20011108		
EP 1000051	A1	20000517	EP 1998-937052	19980731
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 9811598	A	20001003	BR 1998-11598	19980731
JP 2001512114	T2	20010821	JP 2000-505149	19980731

US 2002039745 A1 20020404 US 1998-127364 19980731
PRIORITY APPLN. INFO.: US 1997-904424 A1 19970731
US 1997-54453P P 19970801
WO 1998-US15324 W 19980731

OTHER SOURCE(S): MARPAT 130:182768

AB Disclosed are title compds. R1SO2NR2CHR3QCHR5COR6 [R1 = (un)substituted alkyl, (un)substituted aryl, (un)substituted cycloalkyl, (un)substituted heterocyclyl; R2 = H, any group R1; R1R2 may form (un)substituted heterocyclic ring; R3 = H, any group R1; R2R3 may form (un)substituted heterocyclic ring; R5 = (CH2)x-Ar-R5'; R5' = OZNR8R8', OZR12; R8, R8' = independently H, (un)substituted alkyl, (un)substituted cycloalkyl, (un)substituted heterocyclyl; R12 = (un)substituted heterocyclyl; Z = CO, SO2; Ar = (un)substituted aryl or heteroaryl; x = 1-4; Q = C(X)NR7; R7 = H, alkyl; X = O, S; R6 = NH2, (un)substituted alkoxy, (un)substituted cycloalkoxy, succinimidyl, adamantylamino, .beta.-cholest-5-en-3-yloxy, NHOY, NH(CH2)pCO2Y, OCH2NR9R10; Y = H, (un)substituted alkyl, (un)substituted aryl; p = 1-8; R9 = (un)substituted CO-aryl; R10 = H, CH2CO2R11, NHSO2Z'; R11 = alkyl; Z' = (un)substituted alkyl, (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted heteroaryl, (un)substituted heterocyclyl; and pharmaceutically acceptable salts thereof, with provisos] which bind VLA-4 (also referred to as integrin .alpha.4.beta.1 and CD49d/CD29). Certain of these compds. also inhibit leukocyte adhesion and, in particular, leukocyte adhesion mediated by VLA-4. Such compds. are useful in the treatment of inflammatory diseases in a mammalian patient, e.g., human, wherein the disease may be, for example, asthma, **Alzheimer's** disease, atherosclerosis, AIDS dementia, diabetes, inflammatory bowel disease, rheumatoid arthritis, tissue transplantation, tumor metastasis and myocardial ischemia. The compds. can also be administered for the treatment of inflammatory brain diseases such as multiple sclerosis. Thus, carbamylation of Ts-Pro-Tyr-OEt (Ts = tosyl) with Me2NCOCl in the presence of Et3N and DMAP gave 99% desired title compd. Ts-Pro-Tyr(CONMe2)-OEt (I). Sapon. of I gave the corresponding free acid Ts-Pro-Tyr(CONMe2)-OH. All prepd. compds. have IC50 .ltoreq. 15 .mu.M in a VLA-4 binding assay.

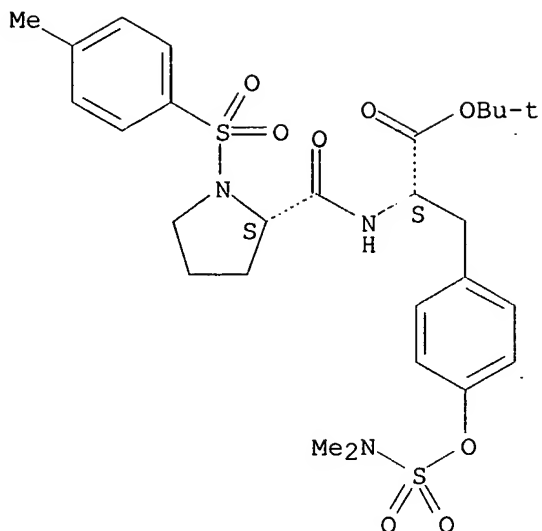
IT 220544-11-6P 220544-28-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of N-sulfonyl O-carbamoyltyrosine dipeptide derivs. and analogs as inhibitors of leukocyte adhesion mediated by VLA-4)

RN 220544-11-6 CAPLUS

CN L-Tyrosine, 1-[(4-methylphenyl)sulfonyl]-L-prolyl-, 1,1-dimethylethyl ester, dimethylsulfamate (ester) (9CI) (CA INDEX NAME)

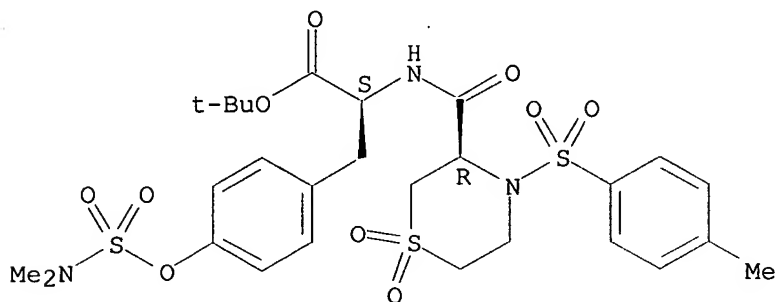
Absolute stereochemistry.



RN 220544-28-5 CAPLUS

CN L-Tyrosine, N-[[[(3R)-4-[(4-methylphenyl)sulfonyl]-1,1-dioxido-3-thiomorpholinyl]carbonyl]-, 1,1-dimethylethyl ester, dimethylsulfamate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 220544-12-7P 220544-49-0P 220545-02-8P

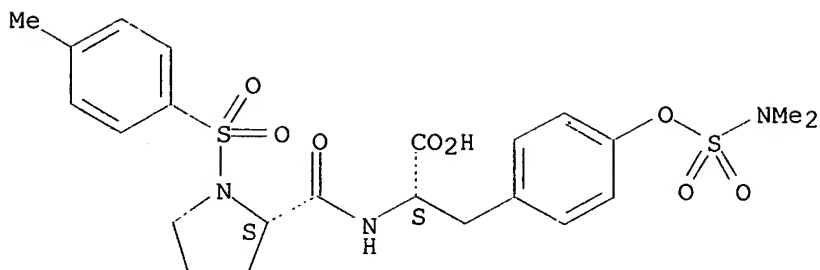
RL: **BAC (Biological activity or effector, except adverse)**; BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-sulfonyl O-carbamoyltyrosine dipeptide derivs. and analogs as inhibitors of leukocyte adhesion mediated by VLA-4)

RN 220544-12-7 CAPLUS

CN L-Tyrosine, 1-[(4-methylphenyl)sulfonyl]-L-prolyl-, dimethylsulfamate (ester) (9CI) (CA INDEX NAME)

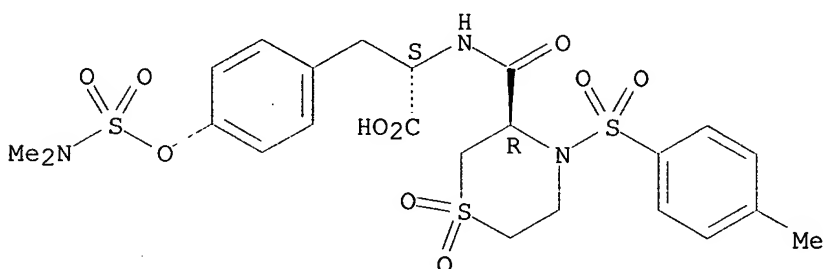
Absolute stereochemistry.



RN 220544-49-0 CAPLUS

CN L-Tyrosine, N-[[[(3R)-4-[(4-methylphenyl)sulfonyl]-1,1-dioxido-3-thiomorpholinyl]carbonyl]-, dimethylsulfamate (ester) (9CI) (CA INDEX NAME)

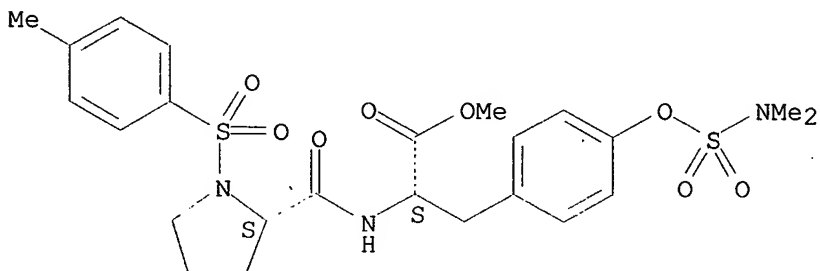
Absolute stereochemistry.



RN 220545-02-8 CAPLUS

CN L-Tyrosine, 1-[(4-methylphenyl)sulfonyl]-L-prolyl-, methyl ester, dimethylsulfamate (ester) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 29 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:77582 CAPLUS

DOCUMENT NUMBER: 130:139509

TITLE: Preparation of **steroid sulfatase inhibitors** for the treatment of estrogen dependent illnesses

INVENTOR(S): Li, Pui-Kai; Selcer, Kyle W.

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA

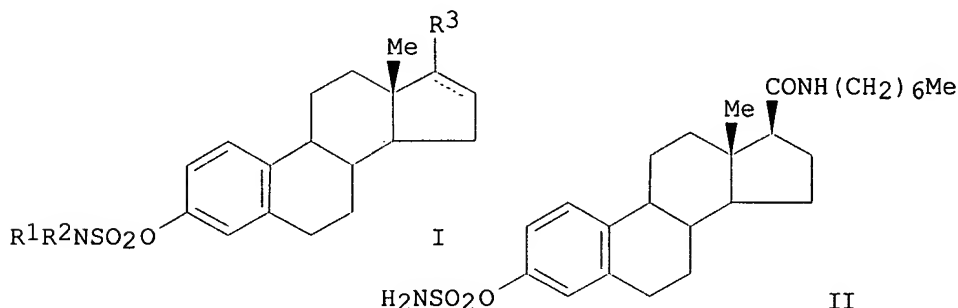
SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

Searched by Barb O'Bryen, STIC 308-4291

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9903876	A1	19990128	WO 1998-US14206	19980708
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 5880115	A	19990309	US 1997-897247	19970718
AU 9885687	A1	19990210	AU 1998-85687	19980708
AU 729325	B2	20010201		
EP 1009755	A1	20000621	EP 1998-936825	19980708
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001510200	T2	20010731	JP 2000-503098	19980708
PRIORITY APPLN. INFO.:			US 1997-897247	A 19970718
			WO 1998-US14206	W 19980708
OTHER SOURCE(S):		MARPAT 130:139509		
GI				



AB Sulfatase inhibitor compds. of formula I [R1, R2 = H, alkyl; R3 = CONH(CH2)mCH3, NHCO(CH2)mCH3; m = 3-13], useful in the treatment of estrogen dependent illnesses, are prepd. Methods for synthesizing these compds. and using them in the therapeutic and/or prophylactic treatment of a patient are also disclosed. Thus, II was prepd. from estrone and heptylamine in 5 steps and significantly inhibited estrone sulfatase in in vitro assays.

IT 9025-62-1, Steroid sulfatase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (inhibitors; prepn. of steroid sulfatase inhibitors)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 211057-33-9P 211057-36-2P 211057-43-1P
 211057-44-2P 211057-45-3P 211057-49-7P

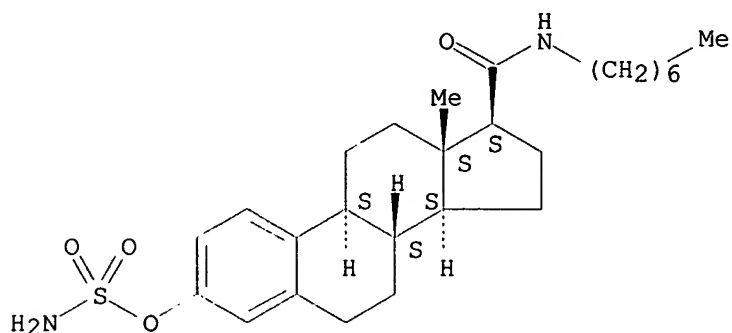
211057-50-0P 211057-51-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of steroid sulfatase inhibitors)

RN 211057-33-9 CAPLUS

CN Estr-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-heptyl-
(9CI) (CA INDEX NAME)

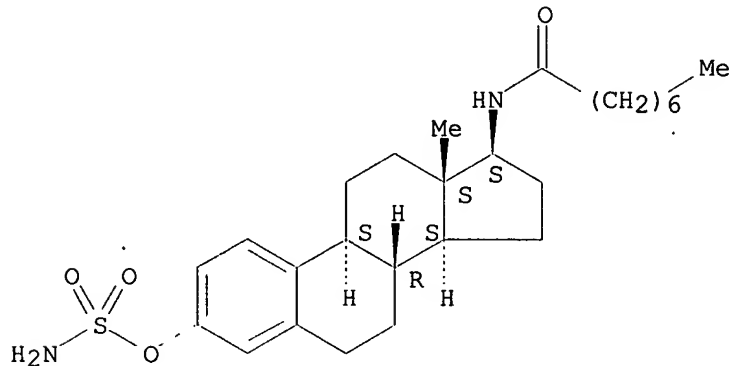
Absolute stereochemistry.



RN 211057-36-2 CAPLUS

CN Sulfamic acid, (17.beta.)-17-[(1-oxooctyl)amino]estra-1,3,5(10)-trien-3-yl
ester (9CI) (CA INDEX NAME)

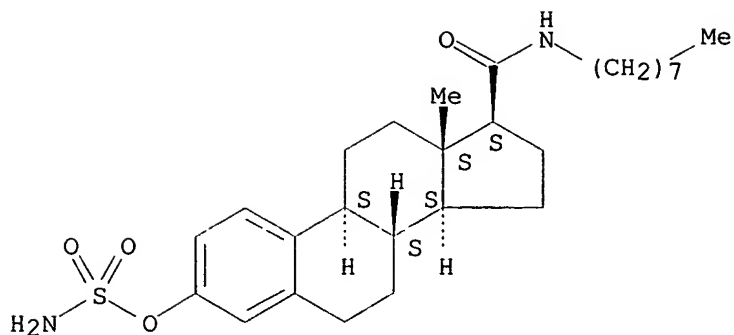
Absolute stereochemistry.



RN 211057-43-1 CAPLUS

CN Estr-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-octyl-
(9CI) (CA INDEX NAME)

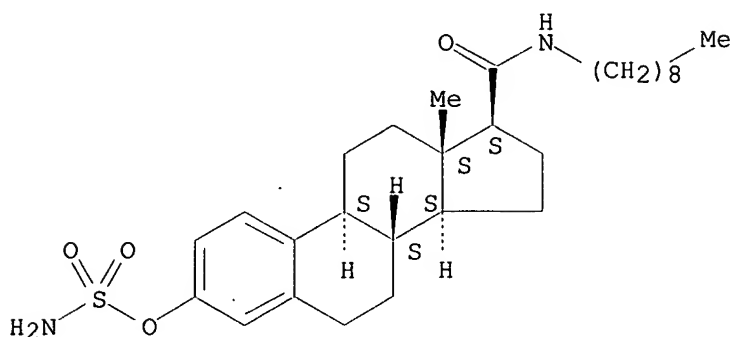
Absolute stereochemistry.



RN 211057-44-2 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-nonyl-
(9CI) (CA INDEX NAME)

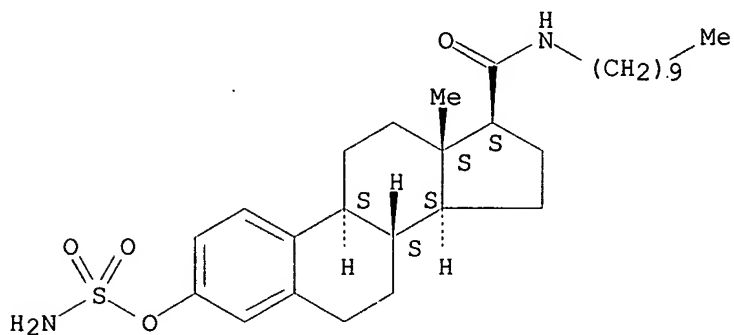
Absolute stereochemistry.



RN 211057-45-3 CAPLUS

CN Estra-1,3,5(10)-triene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-decyl-
(9CI) (CA INDEX NAME)

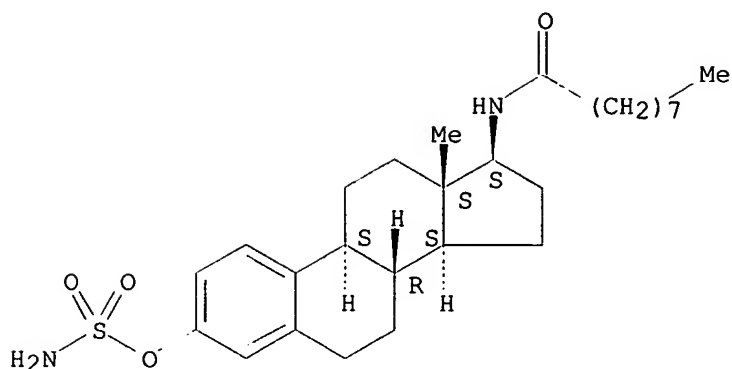
Absolute stereochemistry.



RN 211057-49-7 CAPLUS

CN Nonanamide, N-[(17.beta.)-3-[(aminosulfonyl)oxy]estra-1,3,5(10)-trien-17-yl]-
(9CI) (CA INDEX NAME)

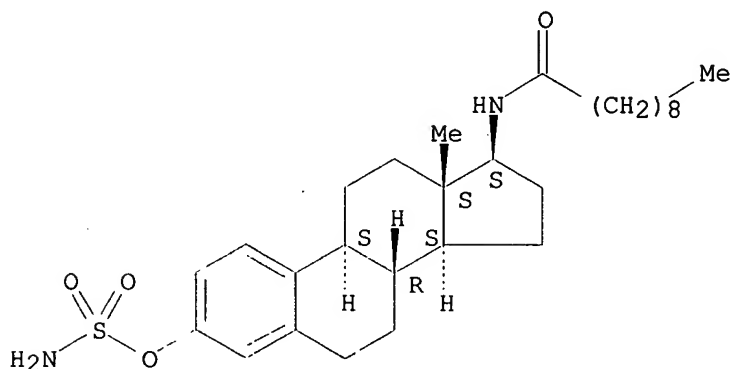
Absolute stereochemistry.



RN 211057-50-0 CAPLUS

CN Decanamide, N-[(17.beta.)-3-[(aminosulfonyl)oxy]estra-1,3,5(10)-trien-17-yl]- (9CI) (CA INDEX NAME)

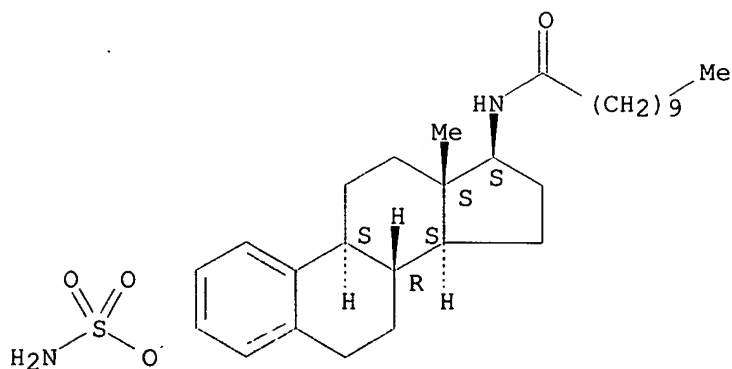
Absolute stereochemistry.



RN 211057-51-1 CAPLUS

CN Undecanamide, N-[(17.beta.)-3-[(aminosulfonyl)oxy]estra-1,3,5(10)-trien-17-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



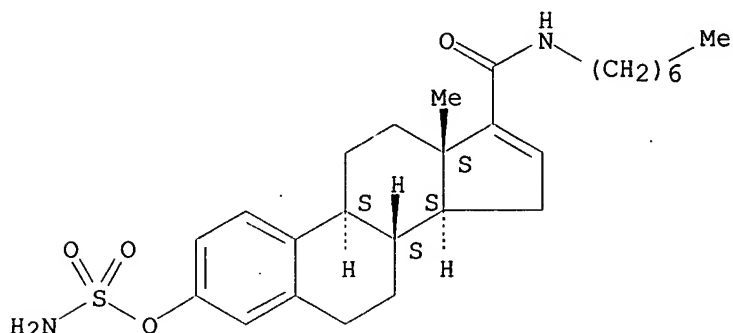
IT 211057-32-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of **steroid sulfatase inhibitors**)

RN 211057-32-8 CAPLUS

CN Estra-1,3,5(10),16-tetraene-17-carboxamide, 3-[(aminosulfonyl)oxy]-N-heptyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:397795 CAPLUS

DOCUMENT NUMBER: 129:49671

TITLE: Methods for effecting memory enhancement mediated by non-steroidal sulfatase inhibitors

INVENTOR(S): Johnson, David A.; Li, Pui-Kai

PATENT ASSIGNEE(S): Duguesne University of the Holy Ghost, USA

SOURCE: U.S., 9 pp.

CODEN: USXXAM

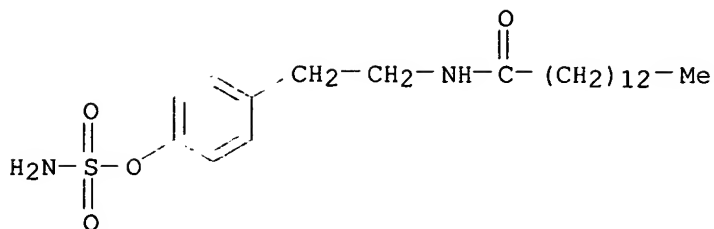
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 5763492	A	19980609	US 1996-722740	19961001
AB	This invention discloses a method for enhancing memory in a patient comprising administering a compd. of formula 4- $R_1R_2NO_2SOC_6H_4(CH_2)_mNHCO(CH_2)_nMe$ [I, $R_1, R_2 = H, alkyl$; $m = 0-4$; $n = 5-14$], optionally in conjunction with the naturally occurring neurosteroids dehydroepiandrosterone sulfate (DHEAS) and/or pregnenolone sulfate (PS). The method is used to treat patients with amnesia, Alzheimer's disease, head injury or various dementias. I [$R_1, R_2 = H, m = 2, n = 12$] was prepd. by acylating tyramine with tridecanoyl chloride followed by treatment with $ClSO_2NH_2$. I [$R_1, R_2 = H, m = 2, n = 12$] reversed scopolamine-induced amnesia and inhibited both liver and brain sulfatase activity.				
IT	186303-55-9P RL: BAC (Biological activity or effector, except adverse) ; SPN (Synthetic preparation); THU (Therapeutic use) ; BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and memory enhancing effects of alkanoyltyramine sulfamates)				
RN	186303-55-9 CAPLUS				
CN	Sulfamic acid, 4-[2-[(1-oxotetradecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)				



L54 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:293484 CAPLUS

DOCUMENT NUMBER: 129:4579

TITLE: Preparation of novel cis-3,4-chroman derivatives
useful in the prevention or treatment of estrogen
related diseases or syndromes

INVENTOR(S): Jacobsen, Poul; Treppendahl, Svend; Bury, Paul
Stanley; Kanstrup, Anders; Christiansen, Lise Brown

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

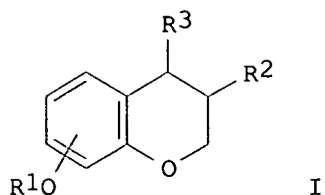
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9818773	A1	19980507	WO 1997-DK480	19971028
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6043269	A	20000328	US 1997-958019	19971027
ZA 9709642	A	19980428	ZA 1997-9642	19971028
AU 9747000	A1	19980522	AU 1997-47000	19971028
EP 937058	A1	19990825	EP 1997-909217	19971028
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
JP 2001502705	T2	20010227	JP 1998-519939	19971028
NO 9902010	A	19990625	NO 1999-2010	19990427
PRIORITY APPLN. INFO.:				
			DK 1996-1200	A 19961028
			US 1996-31239P	P 19961112
			WO 1997-DK480	W 19971028

OTHER SOURCE(S): MARPAT 129:4579

GI



AB The title compds. [cis-I; R1 = COR4, CONHR4, SO2NHR4, etc.; R2 = (un)substituted Ph; R3 = Ph substituted with X(CH2)nY (wherein X = a bond, O, S; n = 1-12; Y = H, halo, OH, etc.), (CH2)nY, Ph fused to a C3-7 heterocyclic ring, (un)satd., (un)substituted, contg. 1-2 heteroatoms selected from O, S, and N; R4 = C1-6 alkyl], useful in the prevention or treatment of bone loss, osteoporosis, cardiovascular diseases, cognitive disorders, senile dementia-Alzheimer's type, menopausal symptoms, estrogen-dependent cancers, etc., were prepd. and formulated. Thus, reaction of (+-)-cis-7-hydroxy-4-[4-(2-pyrrolidinoethoxy)phenyl]-3-[4-(trifluoromethyl)phenyl]chromane with 2,2-dimethylpropanoyl chloride in the presence of Et3N in THF afforded 64% (+-)-cis-I [R1 = COtBu; R2 = 4-CF3C6H4; R3 = 4-(2-pyrrolidinoethoxy)phenyl]. Compds. I are effective at 10-100 mg/day when administered to patients, e.g. humans.

IT 207345-42-4P

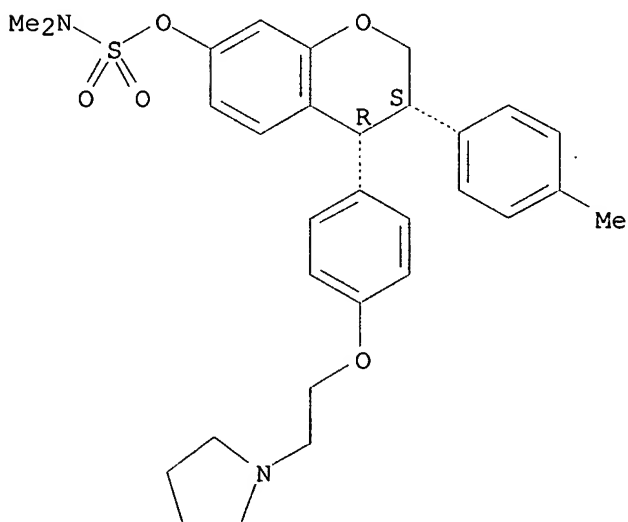
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of novel cis-3,4-chroman derivs. useful in the prevention or treatment of estrogen related diseases or syndromes)

RN 207345-42-4 CAPLUS

CN Sulfamic acid, dimethyl-, (3R,4S)-3,4-dihydro-3-(4-methylphenyl)-4-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2H-1-benzopyran-7-yl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L54 ANSWER 32 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:183931 CAPLUS

DOCUMENT NUMBER: 128:257603

TITLE: Preparation of 3-substituted D-homo-1,3,5,(10)-

INVENTOR(S): estratriene derivatives
Koizumi, Naoyuki; Takegawa, Shigehiro; Iwashita,
Shigeki; Kawachi, Tomoko; Mieda, Mamoru; Fujii,
Tomohito

PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan; Koizumi,
Naoyuki; Takegawa, Shigehiro; Iwashita, Shigeki;
Kawachi, Tomoko; Mieda, Mamoru; Fujii, Tomohito

SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2

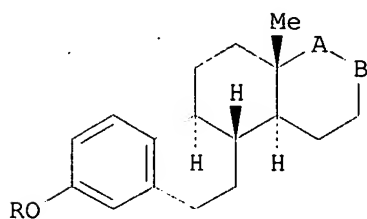
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9811124	A1	19980319	WO 1997-JP3188	19970910
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9742191	A1	19980402	AU 1997-42191	19970910
AU 713341	B2	19991202		
EP 934949	A1	19990811	EP 1997-940331	19970910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1230194	A	19990929	CN 1997-197863	19970910
KR 2000035979	A	20000626	KR 1999-701895	19990305
US 6087347	A	20000711	US 1999-254734	19990312
PRIORITY APPLN. INFO.:			JP 1996-262332	A 19960912
			WO 1997-JP3188	W 19970910
OTHER SOURCE(S):		MARPAT 128:257603		
GI				



AB The title compds. [I; when one of A and B = CO or CH₂ and the other = O or NH; R = SO₂-NR₁R₂, PO(OM)₂; R₁, R₂ = H, alkyl; M = H, alkali metal; when one of A and B = NH, the other = O], useful as antiestrogens, are prepd. Thus, Cl-SO₂-NH₂ was reacted with 3-hydroxy-D-homo-17-oxaestra-1,3,5(10)-trien-17a-one in DMF contg. NaH to give the title compd. D-homo-17-oxaestra-1,3,5(10)-trien-17a-one 3-sulfamate. Because of their excellent estrone sulfatase inhibitory effects, I are useful for the prevention and treatment of diseases caused by estrogens such as mammary cancer, uterus cancer, ovarian cancer, **endometriosis**, uterine adenomyosis and mastopathy.

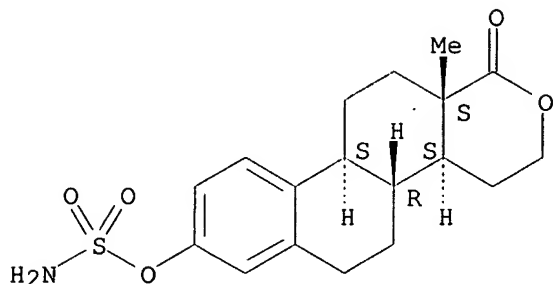
IT 205118-75-8P 205118-76-9P 205118-77-0P
205118-78-1P 205118-79-2P 205118-80-5P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 3-substituted D-homo-1,3,5,(10)-estratriene derivs.)

RN 205118-75-8 CAPLUS

CN Sulfamic acid, (4aS,4bR,10bS,12aS)-3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-oxo-1H-phenanthro[2,1-c]pyran-8-yl ester (9CI) (CA INDEX

NAME)

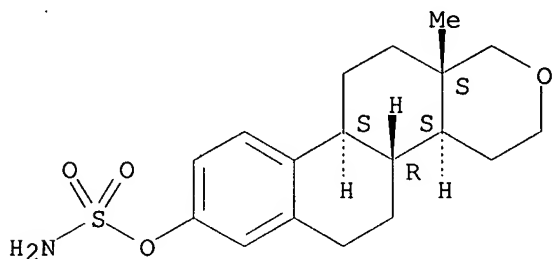
Absolute stereochemistry.



RN 205118-76-9 CAPLUS

CN Sulfamic acid, 3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1H-phenanthro[2,1-c]pyran-8-yl ester, [4aS-(4a.alpha.,4b.beta.,10b.alpha.,12a.beta.)]- (9CI) (CA INDEX NAME)

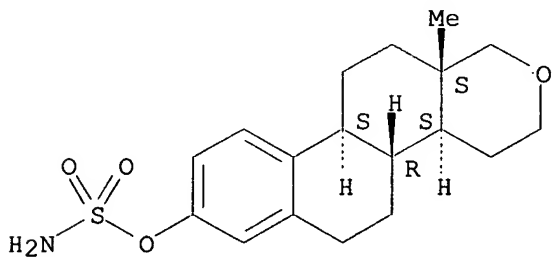
Absolute stereochemistry.



RN 205118-77-0 CAPLUS

CN Sulfamic acid, 3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1H-phenanthro[2,1-c]pyran-8-yl ester, disodium salt, [4aS-(4a.alpha.,4b.beta.,10b.alpha.,12a.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

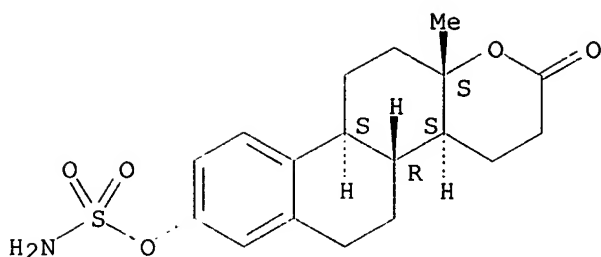


● 2 Na

RN 205118-78-1 CAPLUS

CN Sulfamic acid, (4aS,4bR,10bS,12aS)-3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-2-oxo-2H-phenanthro[2,1-b]pyran-8-yl ester (9CI) (CA INDEX NAME)

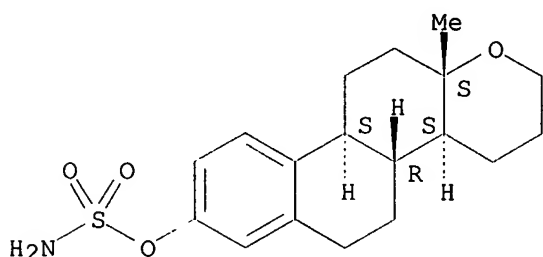
Absolute stereochemistry.



RN 205118-79-2 CAPLUS

CN Sulfamic acid, 3,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-2H-phenanthro[2,1-b]pyran-8-yl ester, [4aS-(4a.alpha.,4b.beta.,10b.alpha.,12a.beta.)]- (9CI) (CA INDEX NAME)

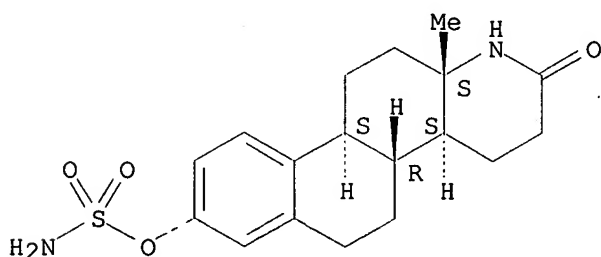
Absolute stereochemistry.



RN 205118-80-5 CAPLUS

CN Sulfamic acid, (4aS,4bR,10bS,12aS)-1,2,3,4,4a,4b,5,6,10b,11,12,12a-dodecahydro-12a-methyl-2-oxonaphtho[2,1-f]quinolin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:169721 CAPLUS

DOCUMENT NUMBER: 128:180574

TITLE: Steroidal and Nonsteroidal Sulfamates As Potent
**Inhibitors of Steroid
Sulfatase**

AUTHOR(S): Woo, L. W. Lawrence; Howarth, Nicola M.; Purohit,
Atul; Hejaz, Hatem A. M.; Reed, Michael J.; Potter,
Barry V. L.

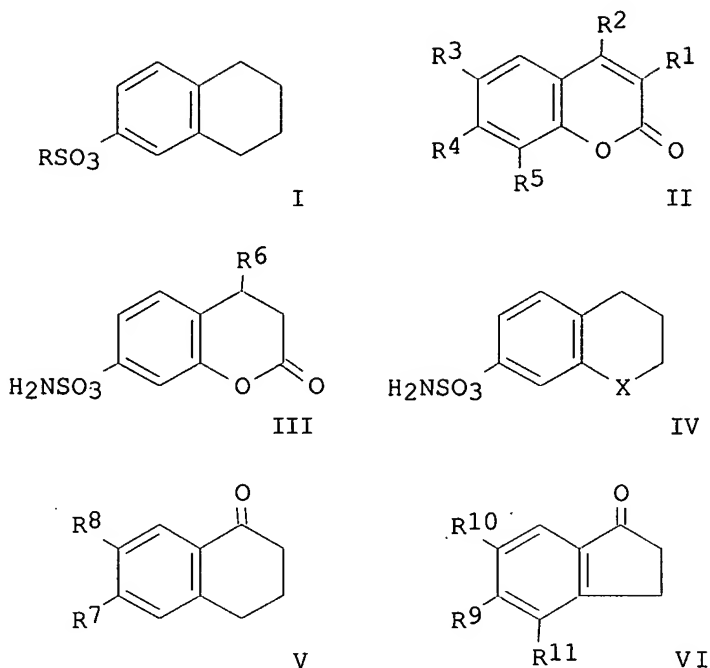
CORPORATE SOURCE: Department of Medicinal Chemistry School of Pharmacy
and Pharmacology, University of Bath, Bath, BA2 7AY,
UK

SOURCE: J. Med. Chem. (1998), 41(7), 1068-1083
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE:
LANGUAGE:
GI

Journal
English



AB Synthetic routes to potent steroidal and nonsteroidal sulfamate-based active site-directed inhibitors of the enzyme steroid sulfatase, a topical target in the treatment of postmenopausal women with hormone-dependent breast cancer, are described. Novel compds. were examd. for estrone sulfatase (E1-STs) inhibition in intact MCF-7 breast cancer cells and placental microsomes. Reaction of the sodium salt of estrone with sulfamoyl chloride gave estrone 3-O-sulfamate (EMATE) which inhibits E1-STs activity potently (>99% at 0.1 μ M in intact MCF-7 cells, IC₅₀ = 65 pM) in a time- and concn.-dependent manner, suggesting that EMATE is an active site-directed inhibitor. EMATE is also active in vivo orally. 5,6,7,8-Tetrahydronaphthalene 2-O-sulfamate (I; R = NH₂) and its N-methylated derivs. (I; R = NHMe, NMe₂) were synthesized, and I (R = NH₂) inhibits the E1-STs activity in intact MCF-7 cells by 79% at 10 μ M. 4-Methylcoumarin 7-O-sulfamate (COUMATE) and its derivs. II (R₁ = R₃ = R₅ = H, R₂ = H, CF₃, R₄ = OSO₂NH₂; R₁ = R₂ = R₅ = Me, R₂ = H, R₄ = OSO₂NH₂) were prepd. to extend this series of nonsteroidal inhibitors, and COUMATE reduces the E1-STs activity in placental microsomes by >90% at 10 μ M. Although the orally active COUMATE is less potent than EMATE as an active site-directed inhibitor, it has the important advantage of being nonestrogenic. Analogs II (R₁ = R₄ = R₅ = H, R₂ = Me, R₃ = OSO₂NH₂; R₁ = R₂ = R₅ = H, R₃ = OMe, R₄ = OSO₂NH₂; R₁ = R₂ = Me, R₃ = R₅ = H, R₄ = OSO₂NH₂; R₁ = R₅ = H, R₂ = Me, R₃ = OSO₂NH₂; R₄ = OH, OSO₂NH₂), III (R₆ = Me, H) and IV (X = O, CH₂) of COUMATE were synthesized to study its structure-activity relationships, and sulfamates of tetralones V (R₇ = OSO₂NH₂, R₈ = H; R₇ = H, R₈ = OSO₂NH₂) and indanones VI (R₉ = R₁₀ = H, R₁₁ = OSO₂NH₂; R₉ = OSO₂NH₂, R₁₀ = R₁₁ = H; R₉ = R₁₁ = H, R₁₀ = OSO₂NH₂) were also prepd. While most of these compds. were found to inhibit E1-STs activity less effectively than COUMATE, one analog, 3,4-dimethylcoumarin 3-O-sulfamate (II; R₁ = R₂ = Me, R₃ = R₅ = H, R₄ = OSO₂NH₂), was found to

be some 12-fold more potent than COUMATE as an E1-STS inhibitor in intact MCF-7 cells [IC50 = 30 nM for II (R1 = R2 = Me, R3 = R5 = H, R4 = OSO2NH2), cf. 380 nM for COUMATE]. Hence, highly potent sulfamate-based inhibitors of steroid sulfatase, such as EMATE, COUMATE, and II (R1 = R2 = Me, R3 = R5 = H, R4 = OSO2NH2), possess therapeutic potential and will allow the importance of estrogen formation in breast tumors via the E1-STS pathway to be assessed. A pharmacophore for active site-directed sulfatase inhibition is proposed.

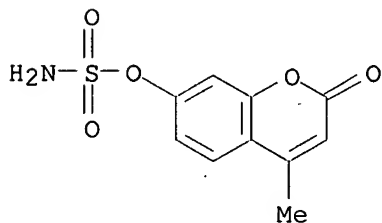
IT 136167-05-0P, 7-Hydroxy-4-methylcoumarin O-sulfamate
 154532-55-5P 175694-72-1P, 7-Hydroxycoumarin sulfamate
 175694-73-2P, 7-Hydroxy-3,4,8-trimethylcoumarin sulfamate
 175694-74-3P, 7-Hydroxy-4-(trifluoromethyl)coumarin sulfamate
 203388-98-1P, 6-Hydroxy-4-methylcoumarin sulfamate
 203388-99-2P, 7-Hydroxy-6-methoxycoumarin sulfamate
 203389-00-8P, 3,4-Dimethyl-7-hydroxycoumarin sulfamate
 203389-01-9P, 6,7-Dihydroxy-4-methylcoumarin 6-O-sulfamate
 203389-02-0P, 6,7-Dihydroxy-4-methylcoumarin di-O-sulfamate
 203389-03-1P, 7-Hydroxy-4-methyl-3,4-dihydrocoumarin O-sulfamate
 203389-04-2P, 7-Hydroxy-3,4-dihydrocoumarin O-sulfamate
 203389-08-6P, Chroman-7-ol O-sulfamate 203389-10-0P,
 1,2-Dihydronaphthalen-7-ol O-sulfamate 203389-11-1P
 203389-12-2P 203389-13-3P 203389-14-4P
 203389-15-5P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nonsteroidal sulfamate-based active site-directed **steroid sulfatase inhibitors**)

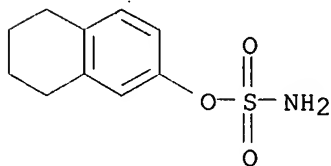
RN 136167-05-0 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



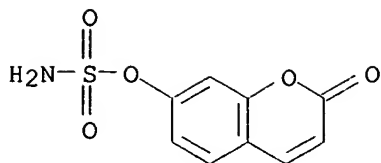
RN 154532-55-5 CAPLUS

CN Sulfamic acid, 5,6,7,8-tetrahydro-2-naphthalenyl ester (9CI) (CA INDEX NAME)



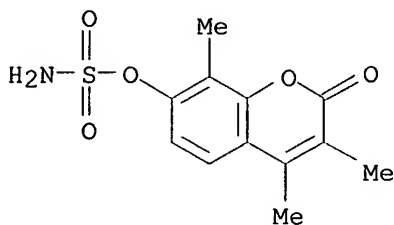
RN 175694-72-1 CAPLUS

CN Sulfamic acid, 2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



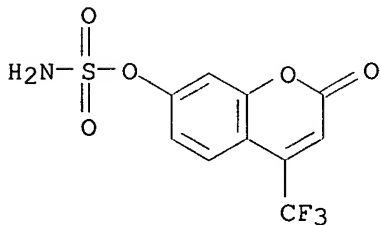
RN 175694-73-2 CAPLUS

CN Sulfamic acid, 3,4,8-trimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



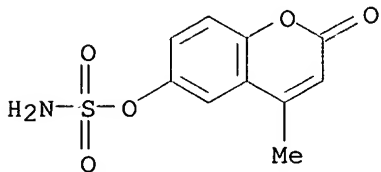
RN 175694-74-3 CAPLUS

CN Sulfamic acid, 2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



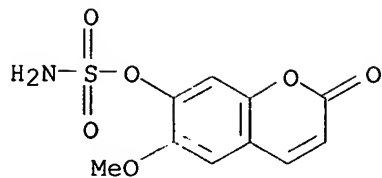
RN 203388-98-1 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

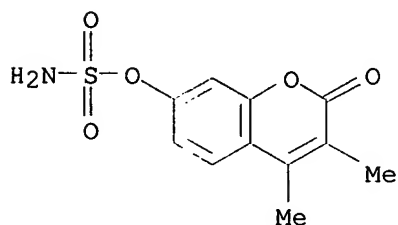


RN 203388-99-2 CAPLUS

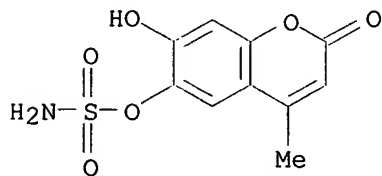
CN Sulfamic acid, 6-methoxy-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



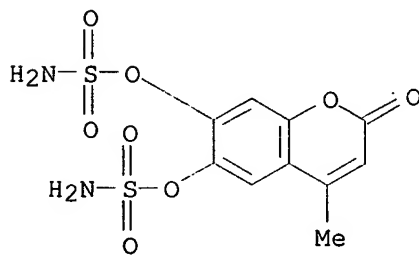
RN 203389-00-8 CAPLUS
CN Sulfamic acid, 3,4-dimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



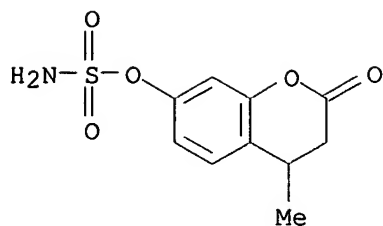
RN 203389-01-9 CAPLUS
CN Sulfamic acid, 7-hydroxy-4-methyl-2-oxo-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



RN 203389-02-0 CAPLUS
CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-6,7-diyl ester (9CI) (CA INDEX NAME)

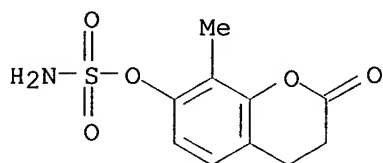


RN 203389-03-1 CAPLUS
CN Sulfamic acid, 3,4-dihydro-4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



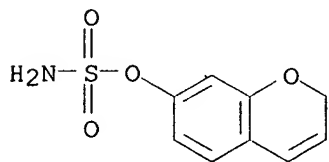
RN 203389-04-2 CAPLUS

CN Sulfamic acid, 3,4-dihydro-8-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI)
(CA INDEX NAME)



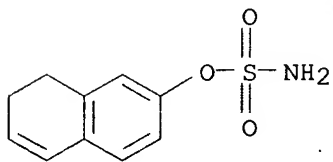
RN 203389-08-6 CAPLUS

CN Sulfamic acid, 2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



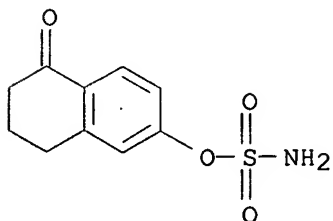
RN 203389-10-0 CAPLUS

CN Sulfamic acid, 7,8-dihydro-2-naphthalenyl ester (9CI) (CA INDEX NAME)

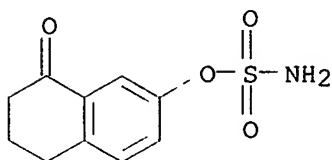


RN 203389-11-1 CAPLUS

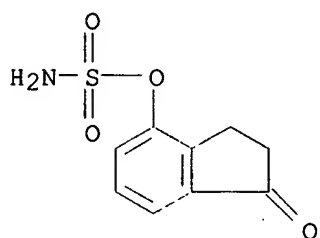
CN Sulfamic acid, 5,6,7,8-tetrahydro-5-oxo-2-naphthalenyl ester (9CI) (CA
INDEX NAME)



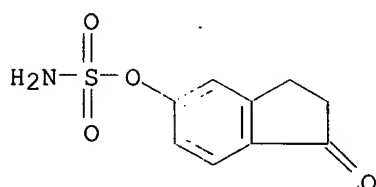
RN 203389-12-2 CAPLUS
CN Sulfamic acid, 5,6,7,8-tetrahydro-8-oxo-2-naphthalenyl ester (9CI) (CA INDEX NAME)



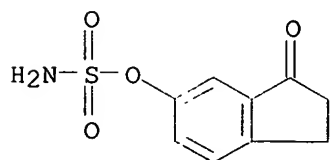
RN 203389-13-3 CAPLUS
CN Sulfamic acid, 2,3-dihydro-1-oxo-1H-inden-4-yl ester (9CI) (CA INDEX NAME)



RN 203389-14-4 CAPLUS
CN Sulfamic acid, 2,3-dihydro-1-oxo-1H-inden-5-yl ester (9CI) (CA INDEX NAME)



RN 203389-15-5 CAPLUS
CN Sulfamic acid, 2,3-dihydro-3-oxo-1H-inden-5-yl ester (9CI) (CA INDEX NAME)



IT 9025-62-1, **Steroid sulfatase**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nonsteroidal sulfamate-based active site-directed **steroid sulfatase inhibitors**)

RN 9025-62-1 CAPLUS
CN Sulfatase, sterol (9CI) (CA INDEX NAME)

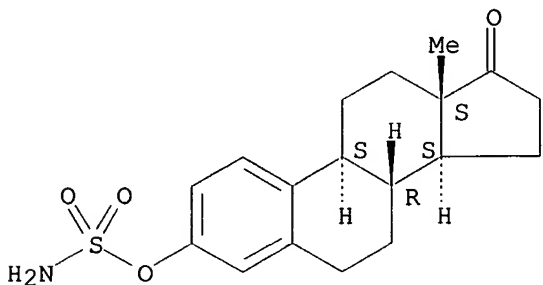
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 148672-09-7P, Estrone O-sulfamate 148672-10-0P, Estrone
O-(N-methylsulfamate) 148672-11-1P, Estrone O-(N,N-
dimethylsulfamate) 154532-56-6P 154532-57-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(nonsteroidal sulfamate-based active site-directed **steroid**
sulfatase inhibitors)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX
NAME)

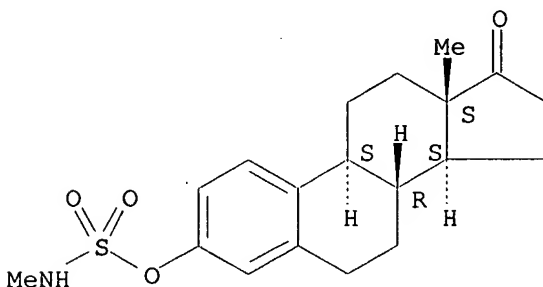
Absolute stereochemistry. Rotation (+).



RN 148672-10-0 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[[[(methylamino)sulfonyl]oxy]- (9CI) (CA
INDEX NAME)

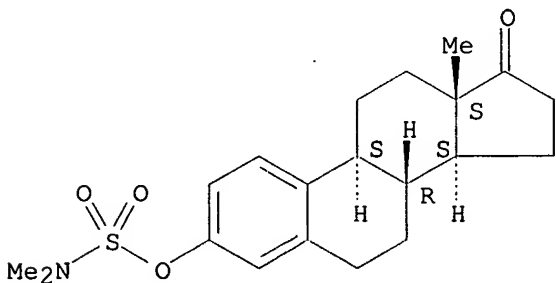
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

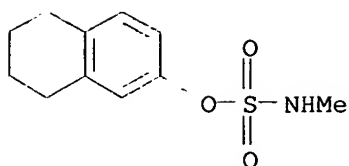
CN Estra-1,3,5(10)-trien-17-one, 3-[[[(dimethylamino)sulfonyl]oxy]- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

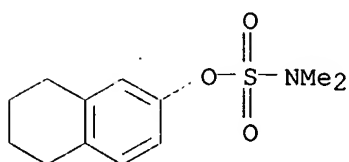


RN 154532-56-6 CAPLUS

CN Sulfamic acid, methyl-, 5,6,7,8-tetrahydro-2-naphthalenyl ester (9CI) (CA
INDEX NAME)



RN 154532-57-7 CAPLUS
CN Sulfamic acid, dimethyl-, 5,6,7,8-tetrahydro-2-naphthalenyl ester (9CI)
(CA INDEX NAME)



L54 ANSWER 34 OF 44 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:623043 CAPLUS
DOCUMENT NUMBER: 127:243636
TITLE: Sequential estrogen/progesterone antagonist
combination for hormone replacement therapy
INVENTOR(S): Chwalisz, Kristof
PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany; Chwalisz,
Kristof
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9733589	A1	19970918	WO 1997-DE580	19970311
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
DE 19610635	A1	19970918	DE 1996-19610635	19960311
CA 2248841	AA	19970918	CA 1997-2248841	19970311
AU 9726911	A1	19971001	AU 1997-26911	19970311
EP 889727	A1	19990113	EP 1997-920535	19970311
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI			
BR 9708162	A	19990727	BR 1997-8162	19970311
JP 2000506175	T2	20000523	JP 1997-532200	19970311
NO 9804166	A	19980910	NO 1998-4166	19980910
PRIORITY APPLN. INFO.:			DE 1996-19610635	19960311
			WO 1997-DE580	19970311

AB A combination of individual metering units of an estrogen and individual metering units of a competitive progesterone antagonist for the sep.

sequential administration thereof, and a pack contg. these units, are provided for hormone replacement therapy. Administration of the progesterone antagonist over a period subsequent to the estrogen administration inhibits the estrogen-induced **endometrial** proliferation (which may lead to **endometrial** carcinoma) and decreases the amt. of estrogen-dependent irregular bleeding, but does not interfere with the protective effect on estrogen on the bones. The estrogen is typically administered orally, transdermally, or vaginally for 28-112 days, followed by a period of progesterone antagonist administration for 4-30 days.

IT 28790-26-3 52310-88-0 55561-09-6
55561-45-0 91490-65-2 148672-09-7
148672-11-1 172377-51-4 172377-52-5, Estradiol
3-sulfamate

RL: BAC (Biological activity or effector, except adverse);

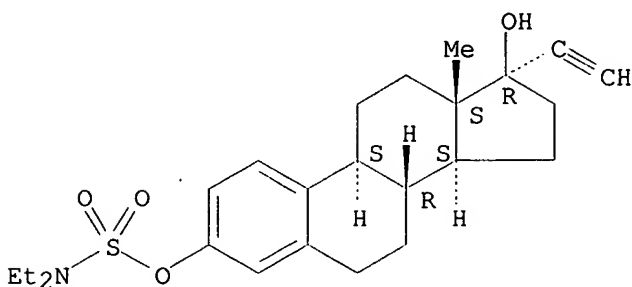
THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sequential estrogen/progesterone antagonist combination for hormone replacement therapy)

RN 28790-26-3 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, 3-(diethylsulfamate),
(17.alpha.)- (9CI) (CA INDEX NAME)

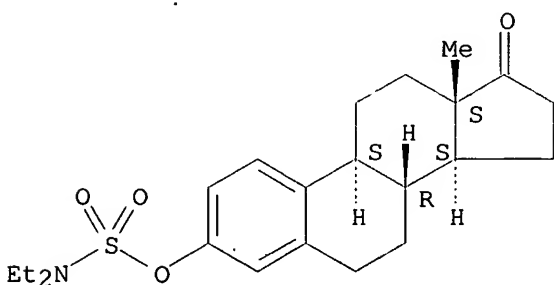
Absolute stereochemistry.



RN 52310-88-0 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[[[(diethylamino)sulfonyl]oxy]- (9CI) (CA
INDEX NAME)

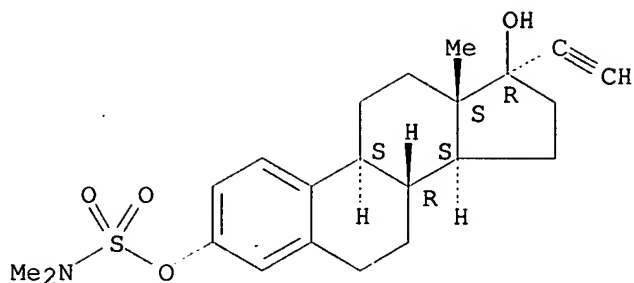
Absolute stereochemistry.



RN 55561-09-6 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, 3-(dimethylsulfamate),
(17.alpha.)- (9CI) (CA INDEX NAME)

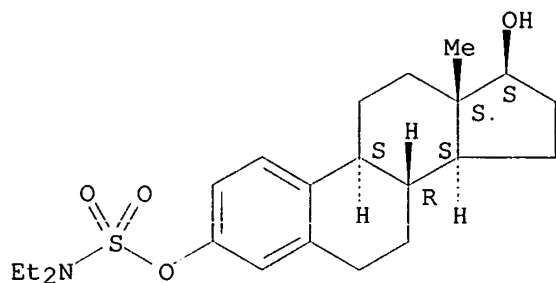
Absolute stereochemistry.



RN 55561-45-0 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 3-(diethylsulfamate) (9CI)
(CA INDEX NAME)

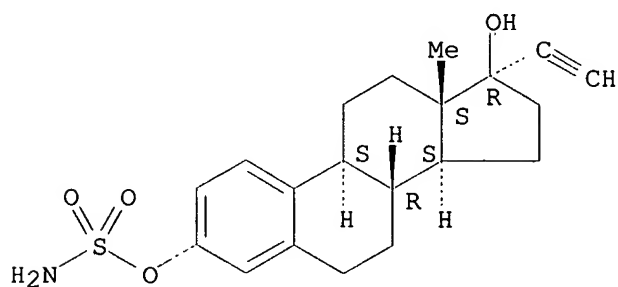
Absolute stereochemistry.



RN 91490-65-2 CAPLUS

CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, 3-sulfamate, (17.alpha.)-
(9CI) (CA INDEX NAME)

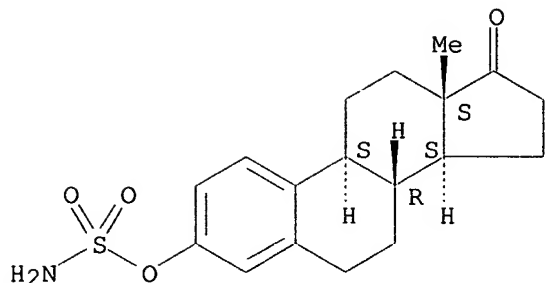
Absolute stereochemistry.



RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX
NAME)

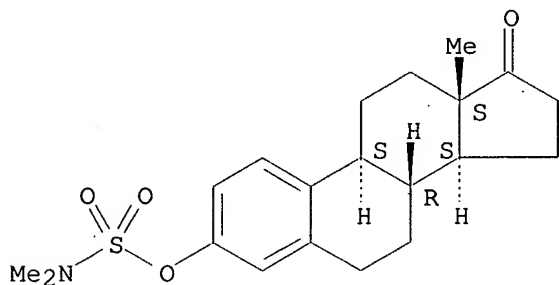
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

CN Estradiol 3-[[dimethylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

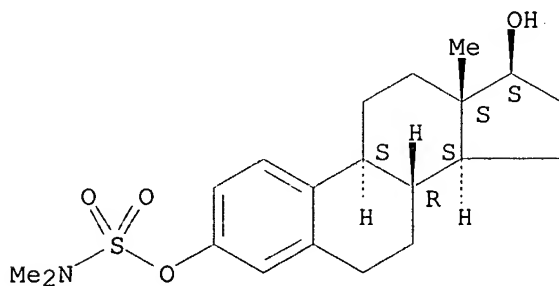
Absolute stereochemistry.



RN 172377-51-4 CAPLUS

CN Estradiol 3-(dimethylsulfamate) (9CI) (CA INDEX NAME)

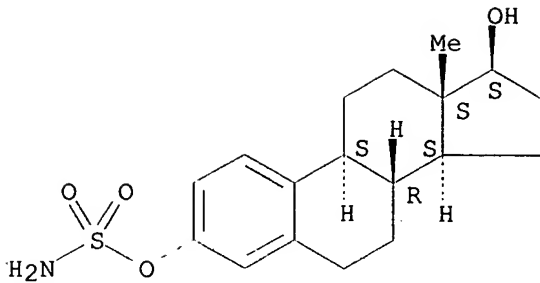
Absolute stereochemistry.



RN 172377-52-5 CAPLUS

CN Estradiol 3-sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L54 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:658347 CAPLUS

DOCUMENT NUMBER: 126:528

TITLE: In vivo activity of 4-methylcoumarin-7-O-sulfamate, a nonsteroidal, nonestrogenic **steroid sulfatase inhibitor**

AUTHOR(S): Purohit, Atul; Woo, Lawrence W. L.; Singh, Anita; Winterborn, Claire J.; Potter, Barry V. L.; Reed, Michael J.

CORPORATE SOURCE: Unit Metabolic Med., Imperial Coll. Sch. Med. St. Mary's, London, W2 1PG, UK

SOURCE: Cancer Res. (1996), 56(21), 4950-4955
CODEN: CNREA8; ISSN: 0008-5472

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Because nonsteroidal steroid sulfatase inhibitors may offer some advantage for use in the treatment of breast cancer, 4-methylcoumarin-7-O-sulfamate (COUMATE) was synthesized and shown to be active in vitro. In this study, in vitro and in vivo techniques were used to confirm that COUMATE, in contrast to the steroidal steroid sulfatase inhibitor estrone-3-O-sulfamate, is devoid of estrogenic activity. COUMATE did not stimulate the growth of MCF-7 breast cancer cells or uteri of ovariectomized rats, in contrast to estrone-3-O-sulfamate. COUMATE was orally active in vivo and after multiple dosing (10 mg/kg/day for 7 days) inhibited liver estrone sulfatase activity by 85%. Seven days after single or multiple dosing with COUMATE, liver estrone sulfatase activity was almost fully restored. The measurement of estrone sulfatase activity in WBCs revealed a degree of inhibition similar to that detected in liver samples. COUMATE was able to completely block the ability of estrone sulfate to stimulate uterine growth in ovariectomized rats. The development of a potent nonsteroidal, nonestrogenic steroid sulfatase inhibitor should allow the therapeutic potential of this type of therapy to be evaluated.

IT 9025-62-1, **Dehydroepiandrosterone sulfatase**

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (synthesis and in vivo activity of 4-methylcoumarin-7-O-sulfamate as nonsteroidal nonestrogenic **steroid sulfatase inhibitor** and potential **neoplasm inhibitor**)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

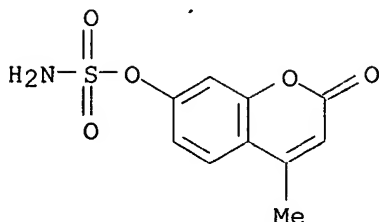
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 136167-05-0P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (synthesis and in vivo activity of 4-methylcoumarin-7-O-sulfamate as nonsteroidal nonestrogenic **steroid sulfatase inhibitor** and potential **neoplasm inhibitor**)

RN 136167-05-0 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



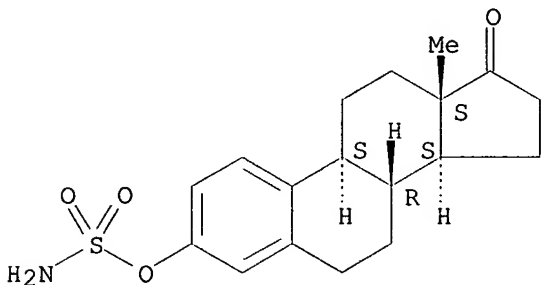
IT 148672-09-7

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synthesis and in vivo activity of 4-methylcoumarin-7-O-sulfamate as nonsteroidal nonestrogenic **steroid sulfatase inhibitor** in comparison with estrone O-sulfamate)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L54 ANSWER 36 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:657063 CAPLUS

DOCUMENT NUMBER: 125:317391

TITLE: Nonsteroidal sulfatase inhibitor compounds and prophylactic and therapeutic use for estrogen-dependent diseases

INVENTOR(S): Li, Pui-kai

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA

SOURCE: U.S., 11 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5567831	A	19961022	US 1995-516021	19950816
CA 2229554	AA	19970227	CA 1996-2229554	19960815
WO 9706793	A1	19970227	WO 1996-US13213	19960815

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN

AU 9667247 A1 19970312 AU 1996-67247 19960815
 EP 845985 A1 19980610 EP 1996-927421 19960815
 EP 845985 B1 20000614

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI

JP 11510813 T2 19990921 JP 1996-509468 19960815
 AT 193888 E 20000615 AT 1996-927421 19960815

PRIORITY APPLN. INFO.: US 1995-516021 A 19950816
 WO 1996-US13213 W 19960815

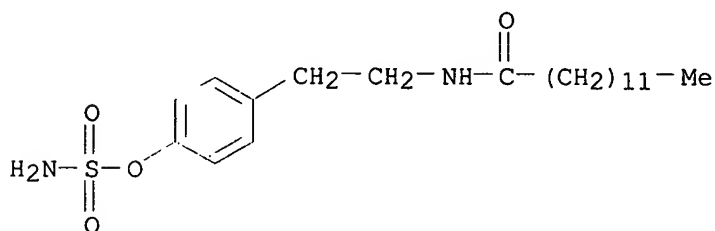
OTHER SOURCE(S): CASREACT 125:317391; MARPAT 125:317391

AB Compds. are disclosed which are useful as nonsteroidal sulfatase inhibitors. The compds. comprise p-[(R1)(R2)NO2SO]Ph(CH2)mNHC(O)(CH2)nCH3 (R1, R2 = H, C1-6 alkyl; m = 0-4; n = 5-14). Also disclosed are methods of treating a patient prophylactically to provide protection as an estrogen-depleting agent for estrogen-dependent illnesses and treating a patient therapeutically for estrogen-dependent diseases. A method of making the nonsteroidal sulfatase inhibitors is also disclosed.

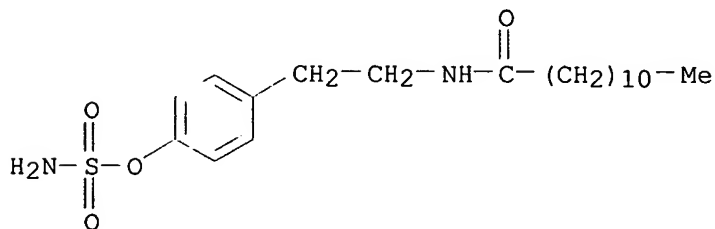
IT 183560-60-3P 183560-61-4P 183560-62-5P
 183560-63-6DP, N-alkanoyl derivs. 183560-64-7P
 183560-65-8P 183560-66-9P 183560-67-0P
 183560-68-1P 183560-69-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (nonsteroidal sulfatase inhibitor prepn. and prophylactic and therapeutic use for estrogen-dependent diseases)

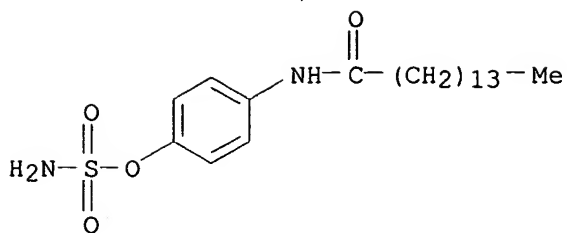
RN 183560-60-3 CAPLUS
 CN Sulfamic acid, 4-[2-[(1-oxotridecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



RN 183560-61-4 CAPLUS
 CN Sulfamic acid, 4-[2-[(1-oxododecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)

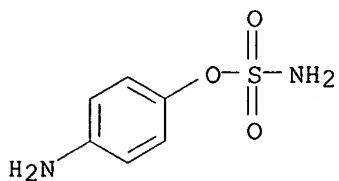


RN 183560-62-5 CAPLUS
 CN Sulfamic acid, 4-[(1-oxopentadecyl)amino]phenyl ester (9CI) (CA INDEX NAME)



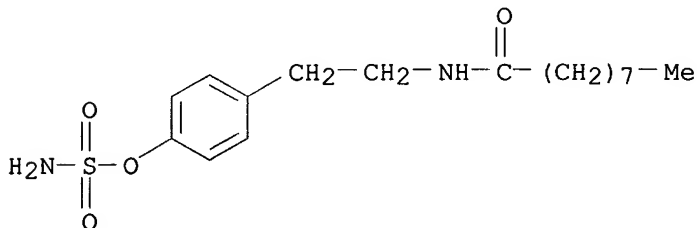
RN 183560-63-6 CAPLUS

CN Sulfamic acid, 4-aminophenyl ester (9CI) (CA INDEX NAME)



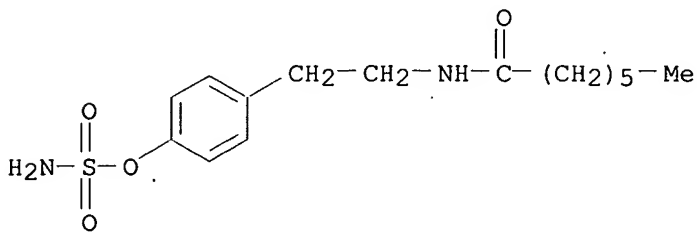
RN 183560-64-7 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxononyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



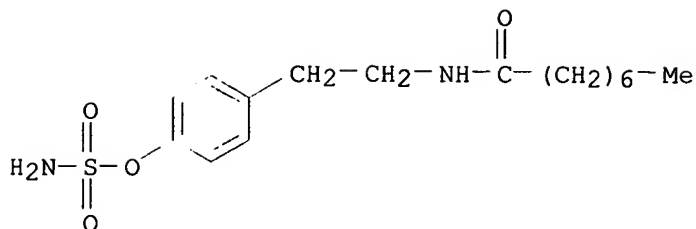
RN 183560-65-8 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxoheptyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



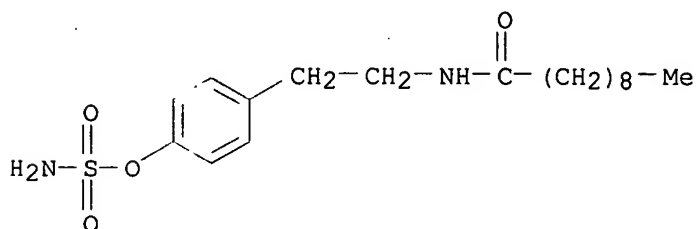
RN 183560-66-9 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxooctyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



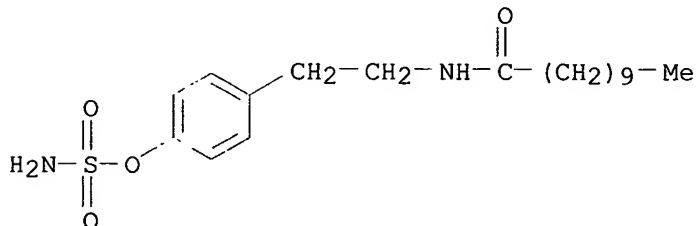
RN 183560-67-0 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxododecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



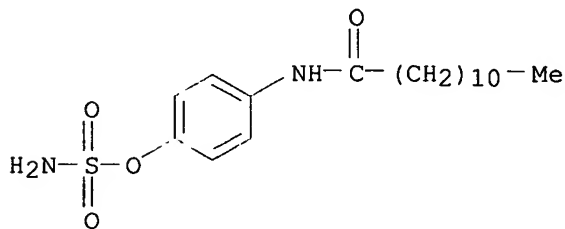
RN 183560-68-1 CAPLUS

CN Sulfamic acid, 4-[2-[(1-oxoundecyl)amino]ethyl]phenyl ester (9CI) (CA INDEX NAME)



RN 183560-69-2 CAPLUS

CN Sulfamic acid, 4-[(1-oxododecyl)amino]phenyl ester (9CI) (CA INDEX NAME)



L54 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:590907 CAPLUS

DOCUMENT NUMBER: 125:294030

TITLE: Methods of effecting memory enhancement mediated by **steroid sulfatase inhibitors**

INVENTOR(S): Johnson, David A.; Li, Pui-kai; Rhodes, Michael E.

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA

SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5556847	A	19960917	US 1994-330534	19941027

OTHER SOURCE(S): MARPAT 125:294030

AB This invention discloses a method for treating a patient for an illness selected from the group consisting of amnesia, head injuries, **Alzheimer's** disease, epileptic dementia, presenile dementia, post-traumatic dementia, senile dementia, vascular dementia and post-stroke dementia or individuals otherwise seeking memory enhancement. The method comprises providing derivs. of estrone, dehydroepiandrosterone, estradiol, estradiol ester, and pregnenolone. The invention also discloses the enhancement of memory by the steroid sulfatase inhibitors acting synergistically with the naturally occurring neuro-steroids dehydroepiandrosterone sulfate (DHEAS) and pregnenolone sulfate. Estrone-3-sulfamate (I) was prepd. and tested with rats to det. its activity in enhancing memory; the daily effective dosage was 10 mg/kg. I was also tested to show its potentiating effect in the reversal of scopolamine-induced amnesia by DHEAS.

IT **9025-62-1, Steroid sulfatase**

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**inhibitors; steroid sulfatase inhibitors** for memory enhancement)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

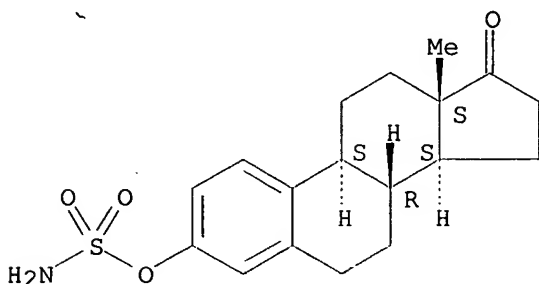
IT **148672-09-7P, Estrone-3-sulfamate**

RL: **BAC (Biological activity or effector, except adverse)**; SPN
(Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(**steroid sulfatase inhibitors** for memory enhancement)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L54 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:446820 CAPLUS

DOCUMENT NUMBER: 125:80528

TITLE: Steroid sulfatase assay

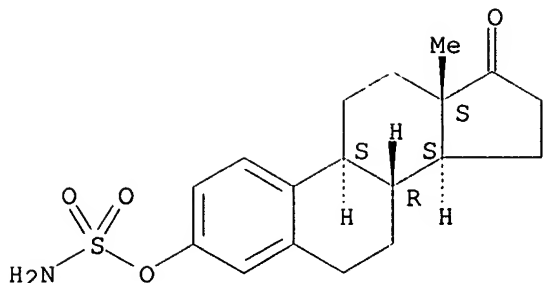
INVENTOR(S): Reed, Michael John; Purohit, Atul

Searched by Barb O'Bryen, STIC 308-4291

PATENT ASSIGNEE(S): Imperial College of Science Technology and Medicine,
UK
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9615257	A2	19960523	WO 1995-GB2638	19951110
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9538510	A1	19960606	AU 1995-38510	19951110
EP 791073	A2	19970827	EP 1995-936656	19951110
EP 791073	B1	20010404		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 200306	E	20010415	AT 1995-936656	19951110
ES 2159324	T3	20011001	ES 1995-936656	19951110
US 5891620	A	19990406	US 1997-836302	19970602
PRIORITY APPLN. INFO.:				
GB 1994-22777 A 19941111				
WO 1995-GB2638 W 19951110				
AB	An assay is described that comprises detg. the absence or presence of steroid sulfatase activity. In a preferred embodiment, the assay uses white blood cells. The assay can be used to det. if an agent is an in vitro and/or in vivo steroid sulfatase inhibitor.			
IT	9025-62-1, Steroid sulfatase RL: ANT (Analyte); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process) (steroid sulfatase activity detn. and inhibitor identification)			
RN	9025-62-1 CAPLUS			
CN	Sulfatase, sterol (9CI) (CA INDEX NAME)			
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***				
IT	148672-09-7, Estrone 3-O-sulfamate 148672-11-1, Estrone-3-N,N-dimethylsulfamate RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (steroid sulfatase activity detn. and inhibitor identification)			
RN	148672-09-7 CAPLUS			
CN	Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)			

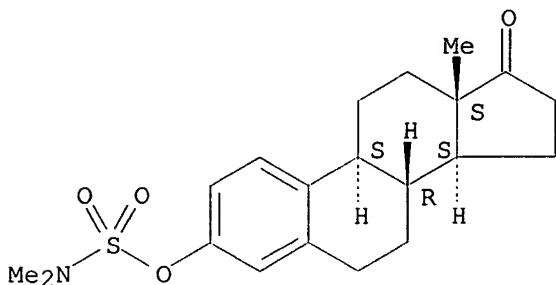
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[[dimethylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:148347 CAPLUS

DOCUMENT NUMBER: 124:278187

TITLE: Active Site Directed Inhibition of Estrone Sulfatase by Nonsteroidal Coumarin Sulfamates

AUTHOR(S): Woo, L. W. Lawrence; Purohit, Atul; Reed, Michael J.; Potter, Barry V. L.

CORPORATE SOURCE: School of Pharmacy and Pharmacology, University of Bath, Bath, BA2 7AY, UK

SOURCE: J. Med. Chem. (1996), 39(7), 1349-51

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Estrogens are the major mitogens involved in promoting the growth of tumors in endocrine-dependent tissues, such as the breast and **endometrium**. There is now convincing evidence that the hydrolysis of estrone sulfate to estrone by estrone sulfatase (E1-STS) is the major source of estrogen in breast and **endometrial** tumors. Estrone 3-O-sulfamate is the most potent active site-directed inactivator of E1-STS synthesized to date. However, recent studies have shown, unexpectedly, that this powerful inhibitor and its estradiol congener are highly estrogenic; and that there is a strong likelihood of estrone being released during sulfatase inhibition by EMATE. This prompted the authors to develop non-steroidal EMATE-like inhibitors and the sulfamates of 7-hydroxycoumarin and its analogs proved to be the best candidates. While all free parent coumarins were devoid of E1-STS inhibitory activity, their sulfamates inhibited the enzyme in intact MCF-7 cells in a dose-dependent manner with similar potencies. The best inhibitor in this series, 4-methylcoumarin-7-O-sulfamate inhibited E1-STS by 93.3% at 10 .mu.M with an IC50 of 380 nM in intact MCF-7 breast cancer cells. This inactivation was shown to be time- and concn.-dependent as for EMATE. It also

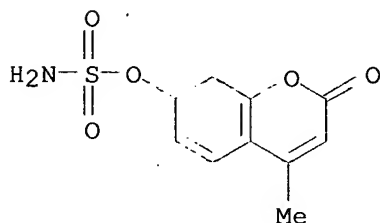
inhibited placental microsomal dehydroepiandrosterone sulfatase by 93.6% at 10 .mu.M. 4-Methylcoumarin-7-O-sulfamate is not estrogenic as indicated by the lack of any significant increase in the uterine wt. in treated ovariectomized rats and preliminary data also demonstrate its potent oral activity in rats. Coumarin sulfamates thus represent key lead compds. for the optimization of non-steroidal sulfatase inhibition. Further development of these inhibitors may be useful for treatment of endocrine-dependent cancers and other conditions such as autoimmune diseases.

IT 136167-05-0P 175694-72-1P 175694-73-2P
175694-74-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(active site directed inhibition of estrone sulfatase by nonsteroidal coumarin sulfamates without estrogenic activity)

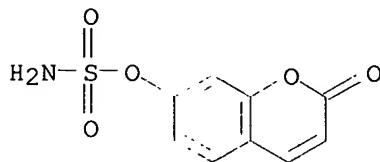
RN 136167-05-0 CAPLUS

CN Sulfamic acid, 4-methyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



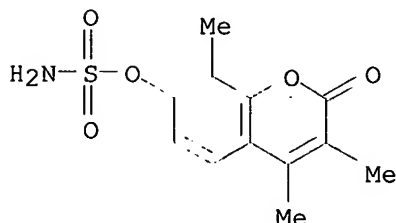
RN 175694-72-1 CAPLUS

CN Sulfamic acid, 2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



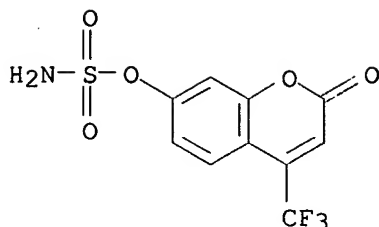
RN 175694-73-2 CAPLUS

CN Sulfamic acid, 3,4,8-trimethyl-2-oxo-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



RN 175694-74-3 CAPLUS

CN Sulfamic acid, 2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl ester (9CI) (CA INDEX NAME)



L54 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:967424 CAPLUS

DOCUMENT NUMBER: 124:1572

TITLE: Use of estrone derivatives as **steroid sulfatase inhibitors**

INVENTOR(S): Foulkes, Roland; Emtage, John Spencer; Bodmer, Mark William; Wales, Martin Rae; Rook, Graham Arthur William

PATENT ASSIGNEE(S): Celltech Therapeutics Ltd., UK; University College London

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9526717	A1	19951012	WO 1995-GB780	19950405
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9521129	A1	19951023	AU 1995-21129	19950405
EP 758230	A1	19970219	EP 1995-913919	19950405
R: DE, ES, FR, GB, IT				
US 6013642	A	20000111	US 1997-721987	19970414
PRIORITY APPLN. INFO.:				
			GB 1994-6715	19940405
			GB 1994-10621	19940526
			GB 1994-25759	19941220
			WO 1995-GB780	19950405

AB A therapeutic method for revealing an endogenous glucocorticoid-like effect in human which comprises the administration of estrone 3-O-(N,N-dimethyl)sulfamate, estrone 3-methylphosphonate, and estrone 3-O-sulfamate as steroid sulfatase inhibitors which prevent the normal physiol. effect of DHEA on immune and(or) inflammatory responses is disclosed. These estrone derivs. were useful as immunosuppressants and inflammation inhibitors.

IT 9025-62-1, Steroid sulfatase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (estrone derivs. as **steroid sulfatase inhibitors** in immunosuppression)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

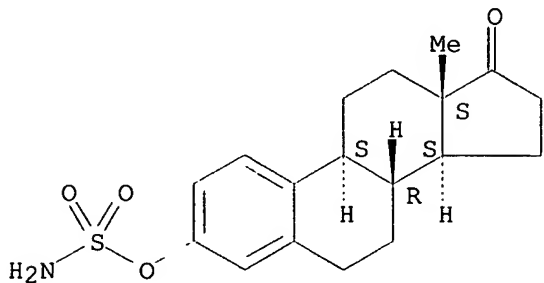
IT 148672-09-7, Estrone 3-O-sulfamate 148672-11-1, Estrone 3-O-(N,N-dimethyl)sulfamate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(estrone derivs. as steroid sulfatase
inhibitors in immunosuppression)

RN 148672-09-7 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX
NAME)

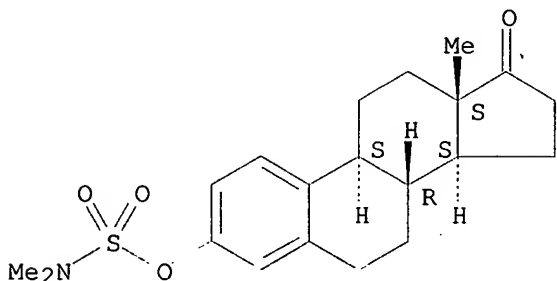
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

CN Estrone-1,3,5(10)-trien-17-one, 3-[[[(dimethylamino)sulfonyl]oxy]- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 41 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:938956 CAPLUS

DOCUMENT NUMBER: 124:45948

TITLE: In vivo inhibition of estrone sulfatase and
dehydroepiandrosterone sulfatase by
estrone-3-O-sulfamate

AUTHOR(S): Purohit, A.; Williams, G. J.; Roberts, C. J.; Potter,
B. V. L.; Reed, M. J.

CORPORATE SOURCE: Imperial College Science, St. Mary's Hospital Medical
School, London, W2 1PG, UK

SOURCE: Int. J. Cancer (1995), 63(1), 106-11
CODEN: IJCNAW; ISSN: 0020-7136

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Many tumors in endocrine-sensitive tissues, such as the breast and
endometrium, are hormone-dependent and the hydrolysis of estrone
sulfate (EIS) to estrone by estrone sulfatase (E1-STS) is a major source
of estrogen in such tumors. Estrone-3-O-sulfamate (EMATE) has been shown
to be a potent E1-STS inhibitor in vitro, and in this study its ability to
inhibit enzyme activity in vivo was examd. EMATE was initially
administered to female rats for 7 days, after which liver E1-STS activity
was measured. As EMATE also inhibits a related sulfatase in vitro,
dehydroepiandrosterone sulfatase (DHA-STS), its effect on the activity of

this enzyme in vivo was also investigated. DHA-STS has a pivotal role in regulating the synthesis of another steroid with potent estrogenic properties, androstenediol. Administration of EMATE almost completely inhibited liver E1-STS (99%) and DHA-STS (99%) activities and was active when given by the oral or s.c. routes. After a single dose of EMATE or following the cessation of multiple doses for 10 days, liver E1-STS activity remained inhibited (>95%) for up to 7 and 10 days, resp. Other compds., such as 4-hydroxytamoxifen and the "pure" anti-estrogen ICI 182,780, which are reported to inhibited E1-STS activity in vitro, did not inhibit activity in vivo. In a preliminary study, EMATE, when injected over a 12-day period, effectively reduced the growth of E1S-stimulated nitrosomethyl-urea-induced mammary tumors in ovariectomized rats and inhibited tumor sulfatase activity in treated animals.

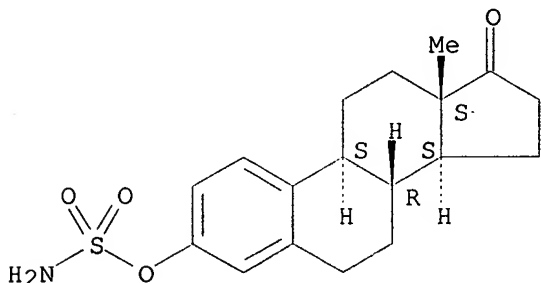
IT 148672-09-7, Estrone-3-O-sulfamate

RL: BAC (Biological activity or effector, except adverse);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(estrone sulfamate inhibition of estrone sulfatase and
dehydroepiandrosterone sulfatase in relation to
mammary and other tumor treatment)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 9025-62-1, Dehydroepiandrosterone sulfatase

RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(estrone sulfamate inhibition of estrone sulfatase and
dehydroepiandrosterone sulfatase in relation to
mammary and other tumor treatment)

RN 9025-62-1 CAPLUS

CN Sulfatase, sterol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L54 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:534139 CAPLUS

DOCUMENT NUMBER: 121:134139

TITLE: Preparation of pharmaceutically active
bicyclic-heterocyclic amines

INVENTOR(S): Ayer, Donald E.; Bundy, Gordon L.; Jacobsen, Eric Jon

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: PCT Int. Appl., 120 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

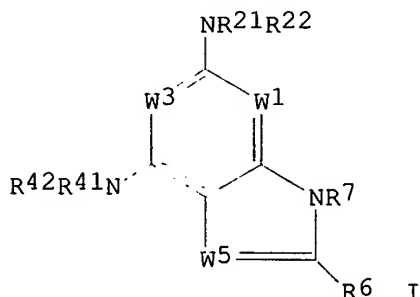
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9320078 A1 19931014 WO 1993-US2188 19930316
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP,
KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK,
UA, US, VN
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG
AU 9339174 A1 19931108 AU 1993-39174 19930316
AU 675932 B2 19970227
EP 633886 A1 19950118 EP 1993-908303 19930316
EP 633886 B1 20001018
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
HU 70954 A2 19951128 HU 1994-2829 19930316
JP 08502721 T2 19960326 JP 1993-517457 19930316
RU 2103272 C1 19980127 RU 1994-42466 19930316
PL 175347 B1 19981231 PL 1993-305430 19930316
PL 175327 B1 19981231 PL 1993-317810 19930316
AT 197051 E 20001115 AT 1993-908303 19930316
ES 2150941 T3 20001216 ES 1993-908303 19930316
NO 9403655 A 19941205 NO 1994-3655 19940930
FI 9404602 A 19941003 FI 1994-4602 19941003
US 5502187 A 19960326 US 1994-317934 19941003
PRIORITY APPLN. INFO.: US 1992-863646 A2 19920403
WO 1993-US2188 A 19930316
US 1993-128957 B1 19930929
US 1994-222995 B1 19940405
OTHER SOURCE(S): MARPAT 121:134139
GI



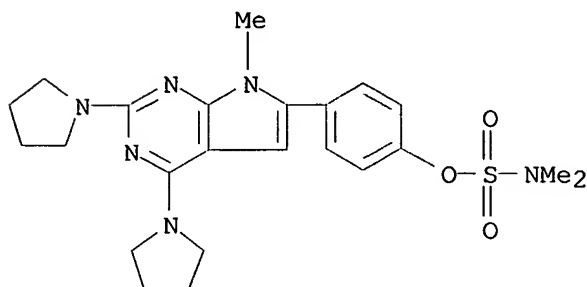
AB Title compds. [I; W1, W3 = N, CH; W5 = N, CR5; R5, R6, R7 = H, (substituted) alkyl, cycloalkyl; R21, R22, R41, R42 = H, alkyl; R21R22N, R41R42N = (substituted) pyrrolidinyl, piperidinyl, morpholinyl, piperazinyl, aziridinyl, azetidiny, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiomorpholinyl, thiazolidinyl, etc.], were prepd. for treating/preventing spinal trauma, head injury, subarachnoid hemorrhage, stroke, asthma, mucous formation/secretion, muscular dystrophy, adriamycin cardiac toxicity, parkinsonism, **Alzheimer's** disease, multiple sclerosis, reperfusion damage, shock, burns, inflammatory disease, atherosclerosis, emphysema, lupus, cancer, ulcers, colitis, Crohn's disease, myocardial infarctions, ischemia, migraine, etc. (no data). I may be used similarly to glucocorticoids for treating the above conditions. Thus, 2,4,6-trichloropyrimidine was stirred with MeNH₂.HCl and (Me₂CH)₂NEt in THF to give 2,6-dichloro-4-methylaminopyrimidine. This was refluxed with pyrrolidine to give 4-methylamino-2,6-di-(1-pyrrolidinyl)pyrimidine. The latter was stirred with .alpha.-bromoacetophenone and (Me₂CH)₂NEt in MeCN to give 6-phenyl-2,4-di-(1-pyrrolidinyl)-7-methyl-7H-pyrrolo[2,3-d]pyrimidine.

IT 157013-07-5P
RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as drug)

RN 157013-07-5 CAPLUS

CN Sulfamic acid, dimethyl-, 4-(7-methyl-2,4-di-1-pyrrolidinyl-7H-pyrrolo[2,3-d]pyrimidin-6-yl)phenyl ester (9CI) (CA INDEX NAME)



L54 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:449735 CAPLUS

DOCUMENT NUMBER: 119:49735

TITLE: Preparation of polycyclic alcohol sulfamate esters as
steroid sulphatase inhibitors

INVENTOR(S): Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Imperial College of Science, Technology and Medicine,
UK

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9305064	A1	19930318	WO 1992-GB1587	19920828
W:	AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG			
AU 9224905	A1	19930405	AU 1992-24905	19920828
AU 668882	B2	19960523		
BR 9206434	A	19940927	BR 1992-6434	19920828
HU 66097	A2	19940928	HU 1994-583	19920828
EP 641355	A1	19950308	EP 1992-918285	19920828
EP 641355	B1	20000719		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE			
EP 921130	A2	19990609	EP 1998-204340	19920828
EP 921130	A3	20010905		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE			
EP 928609	A2	19990714	EP 1998-204337	19920828
EP 928609	A3	20011107		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE			
JP 2000038341	A2	20000208	JP 1999-211413	19920828
EP 982032	A2	20000301	EP 1999-203449	19920828
EP 982032	A3	20020320		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE			
AT 194843	E	20000815	AT 1992-918285	19920828
ES 2148178	T3	20001016	ES 1992-918285	19920828

JP 2000355542 A2 20001226 JP 2000-163410 19920828
JP 2000355598 A2 20001226 JP 2000-163411 19920828
EP 1099706 A2 20010516 EP 2000-204525 19920828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE
JP 3219408 B2 20011015 JP 1993-505032 19920828
NO 9400635 A 19940429 NO 1994-635 19940224
FI 9400903 A 19940420 FI 1994-903 19940225
NO 2000002595 A 20000519 NO 2000-2595 19940429
US 5616574 A 19970401 US 1994-196192 19941227
AU 9658373 A1 19960905 AU 1996-58373 19960705
AU 689043 B2 19980319
AU 9871952 A1 19980813 AU 1998-71952 19980618
AU 723707 B2 20000907
AU 9910077 A1 19990304 AU 1999-10077 19990111
AU 717116 B2 20000316
NO 9905075 A 19940429 NO 1999-5075 19991018
NO 9905076 A 19940429 NO 1999-5076 19991018
AU 726811 B2 20001123 AU 2000-10130 20000106
LV 12618 B 20010720 LV 2000-131 20001003
FI 2000002259 A 20001013 FI 2000-2259 20001013
FI 2000002260 A 20001013 FI 2000-2260 20001013
FI 2000002261 A 20001013 FI 2000-2261 20001013
US 2001018435 A1 20010830 US 2001-794853 20010227

PRIORITY APPLN. INFO.:

GB 1991-18478 A 19910829
EP 1992-918285 A3 19920828
EP 1998-204340 A3 19920828
JP 1993-505032 A3 19920828
WO 1992-GB1587 A 19920828
US 1994-196192 A3 19941227
US 1995-458352 A2 19950602
WO 1997-GB444 A2 19970217
WO 1997-GB3352 A2 19971204
AU 1998-71952 A3 19980618
US 1998-111927 A3 19980708
AU 1999-10077 A 19990111
US 1999-238345 A3 19990127
US 2000-579163 A3 20000525

OTHER SOURCE(S): MARPAT 119:49735

AB Sulfamic acid esters of polycyclic alcs., e.g., R1R2NSO2OR3 [R1, R2 = H, alkyl, alkenyl, cycloalkyl, aryl; R1R2 = (heteroatom-interrupted) alkylene; R3 = polycyclyl], were prepd. Thus, estrone was stirred with sulfamoyl chloride and NaH in DMF at 0.degree. to room temp. to give estrone-3-sulfamate. The latter at 10 mg/kg/day s.c. for 7 days in rats gave 98.4% redn. of liver microsome steroid sulfatase.

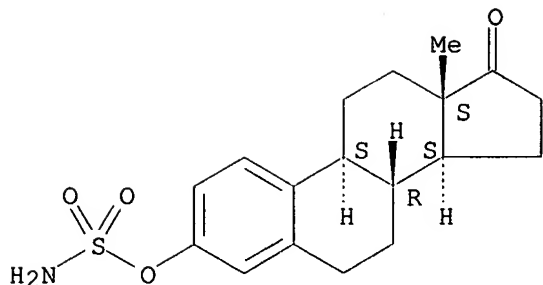
IT 148672-09-7P, Estrone 3-sulfamate 148672-10-0P, Estrone 3-N-methylsulfamate 148672-11-1P, Estrone 3-N,N-dimethylsulfamate

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as steroid sulfatase inhibitor
)

RN 148672-09-7 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[(aminosulfonyl)oxy]- (9CI) (CA INDEX NAME)

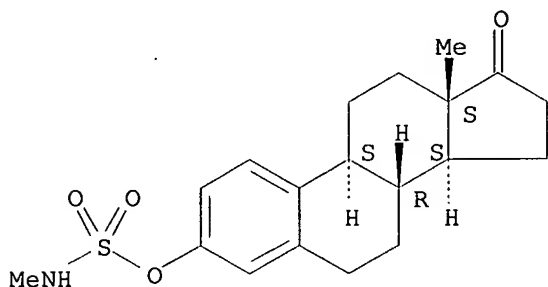
Absolute stereochemistry. Rotation (+).



RN 148672-10-0 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[[[(methylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

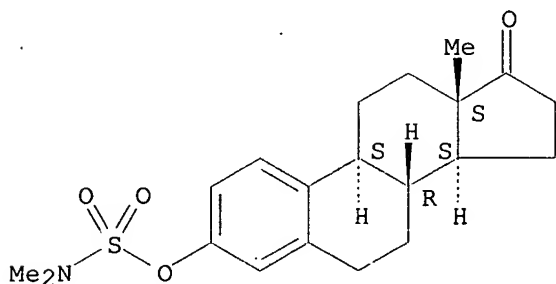
Absolute stereochemistry. Rotation (+).



RN 148672-11-1 CAPLUS

CN Estra-1,3,5(10)-trien-17-one, 3-[[[(dimethylamino)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1980:191780 CAPLUS

DOCUMENT NUMBER: 92:191780

TITLE: **Antifertility** activities of newly synthesized steroids in rats administered postcoitally before and after implantation and their interceptive effects in the baboon

AUTHOR(S): Strecke, J.; Oettel, M.; Komor, A.

CORPORATE SOURCE: Cent. Inst. Microbiol. Exp. Ther., Ger. Acad. Sci., Jena, Ger. Dem. Rep.

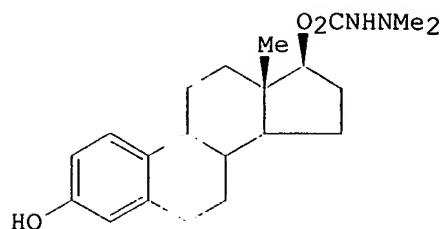
SOURCE: Pharmazie (1980), 35(1), 45-7

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

Searched by Barb O'Bryen, STIC 308-4291

LANGUAGE: English
GI



I

AB Postcoital oral administration of the newly synthesized estrogenic steroids STS 456 (I) [55081-70-4], STS 153 [43085-16-1], STS 287 [30033-03-5], STS 593 [68247-73-4], or J 628 [65323-80-0] had a **fertility**-inhibiting effect in rats and baboons, with I being the most active inhibitor of nidation in rats. In addn. to accelerating tubal egg transport and inhibiting implantation, the steroids also caused placental sepn., fetal death, and necrosis of implantation sites when administered after implantation.

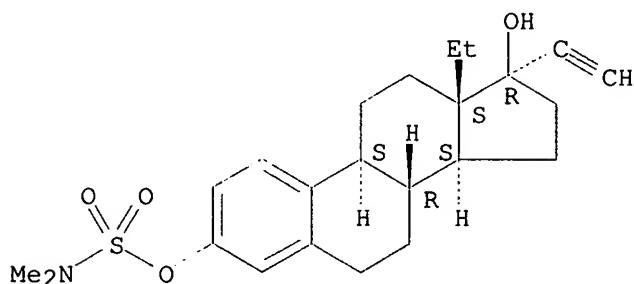
IT 65323-80-0

RL: BAC (Biological activity or effector, except adverse); BIOL
(Biological study)
(antifertility activity of)

RN 65323-80-0 CAPLUS

CN 18,19-Dinorpregna-1,3,5(10)-trien-20-yne-3,17-diol, 13-ethyl-,
3-(dimethylsulfamate), (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg; d stat que 150; .fil capl; d que nos 151
FILE 'REGISTRY' ENTERED AT 13:29:51 ON 07 MAY 2002
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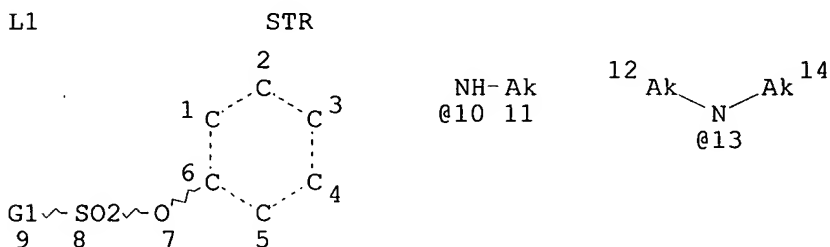
STRUCTURE FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0
DICTIONARY FILE UPDATES: 5 MAY 2002 HIGHEST RN 411206-65-0

TSCA INFORMATION NOW CURRENT THROUGH July '7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

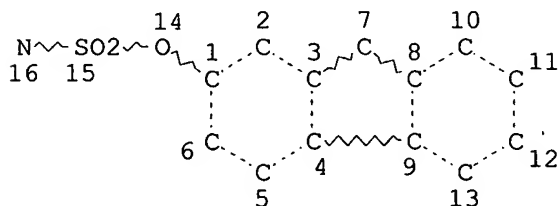
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STN Note 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>



VAR G1=NH2/10/13
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 11
CONNECT IS E1 RC AT 12
CONNECT IS E1 RC AT 14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L3 1336 SEA FILE=REGISTRY SSS FUL L1
L40 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED

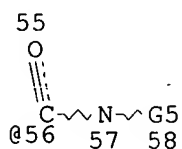
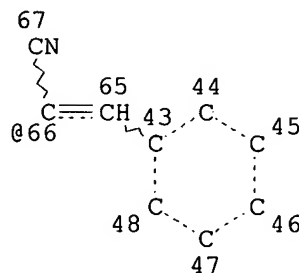
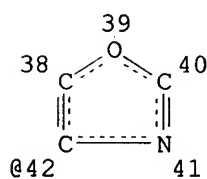
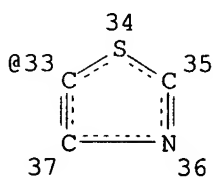
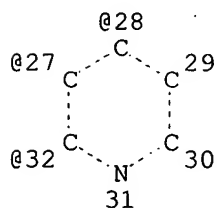
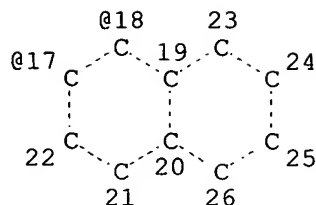
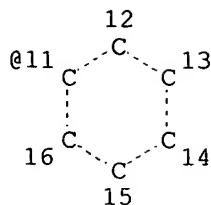
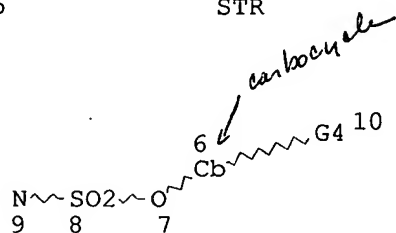
*same full file search
as before*

*subset search done
looking for any of the
following 3 structures*

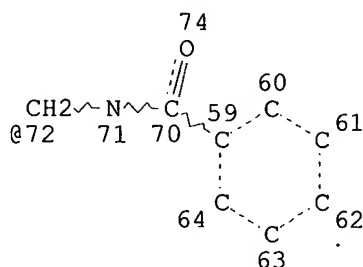
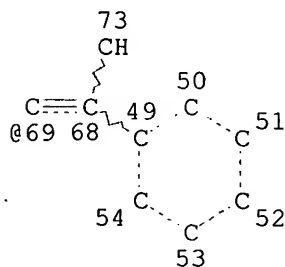
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L46 STR



Page 1-A



Page 2-A

VAR G4=11/17/18/32/27/28/33/42/66/69/56/72

VAR G5=H/11

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 6

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY LOC UNS AT

DEFAULT ECLEVEL IS LIMITED

6 - carbocycle at node 6 is monocyclic, unsaturated, with ≤ 6 carbons

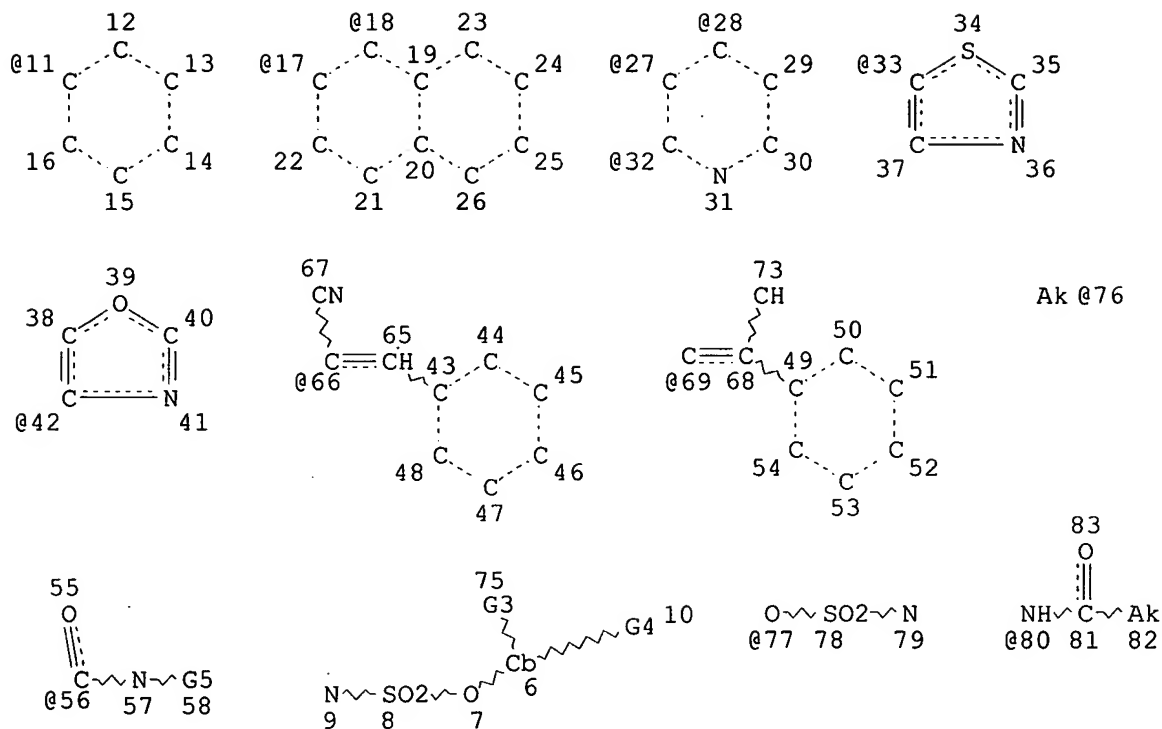
GRAPH ATTRIBUTES:

RSPEC 11 43 49 59

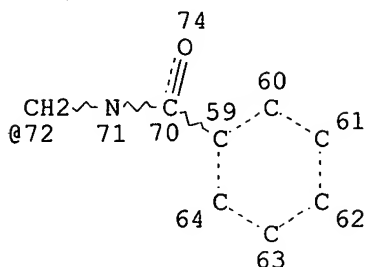
NUMBER OF NODES IS 69

STEREO ATTRIBUTES: NONE

L47 STR



Page 1-A



Page 2-A

VAR G3=X/76/NO2/CN/77/80

VAR G4=11/17/18/32/27/28/33/42/66/69/56/72

VAR G5=H/11

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 6

CONNECT IS E1 RC AT 76

CONNECT IS E1 RC AT 82

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY LOC UNS AT 6

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 11 43 49 59

NUMBER OF NODES IS 78

STEREO ATTRIBUTES: NONE

L50 152 SEA FILE=REGISTRY SUB=L3 SSS FUL (L40 OR L46 OR L47)

100.0% PROCESSED 1336 ITERATIONS

152 ANSWERS

SEARCH TIME: 00.00.05

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FILE COVERS 1907 - 7 May 2002 VOL 136 ISS 19
FILE LAST UPDATED: 6 May 2002 (20020506/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

L1 STR
L3 1336 SEA FILE=REGISTRY SSS FUL L1
L40 STR
L46 STR
L47 STR
L50 152 SEA FILE=REGISTRY SUB=L3 SSS FUL (L40 OR L46 OR L47)
L51 19 SEA FILE=CAPLUS ABB=ON L50

=> s 151 not 154

L55 16 L51 NOT (L54)

previously printed

=> fil uspatf; d que nos 152

FILE 'USPATFULL' ENTERED AT 13:30:19 ON 07 MAY 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 2 May 2002 (20020502/PD)
FILE LAST UPDATED: 2 May 2002 (20020502/ED)
HIGHEST GRANTED PATENT NUMBER: US6381748
HIGHEST APPLICATION PUBLICATION NUMBER: US2002053100
CA INDEXING IS CURRENT THROUGH 2 May 2002 (20020502/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 2 May 2002 (20020502/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2002
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<

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>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1          STR
L3          1336 SEA FILE=REGISTRY SSS FUL L1
L40         STR
L46         STR
L47         STR
L50         152 SEA FILE=REGISTRY SUB=L3 SSS FUL (L40 OR L46 OR L47)
L52         7 SEA FILE=USPATFULL ABB=ON L50
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=> dup rem 155,152

FILE 'CAPLUS' ENTERED AT 13:30:24 ON 07 MAY 2002
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FILE 'USPATFULL' ENTERED AT 13:30:24 ON 07 MAY 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L55
PROCESSING COMPLETED FOR L52
L56 21 DUP REM L55 L52 (2 DUPLICATES REMOVED)
 ANSWERS '1-16' FROM FILE CAPLUS
 ANSWERS '17-21' FROM FILE USPATFULL

=> d ibib abs hitstr 156 1-21; fil cao; d que nos 153

L56. ANSWER 1 OF 21 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
ACCESSION NUMBER: 1993:649709 CAPLUS
DOCUMENT NUMBER: 119:249709
TITLE: Sulfamates as antiglaucoma agents
INVENTOR(S): Lo, Young S.; Nolan, Joseph C.; Shamblee, Dwight A.
PATENT ASSIGNEE(S): Robins, A. H., Co., Inc., USA
SOURCE: U.S., 35 pp. Cont-in-part of U.S. Ser. No. 406,736,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5192785	A	19930309	US 1991-712855	19910610
PRIORITY APPLN. INFO.:			US 1989-406736	19890903
OTHER SOURCE(S):		MARPAT 119:249709		
AB Sulfamates (HO)pA[OS(O)2NR1R2]z		(A = aryloxyalkyl, p = no. of OH groups		

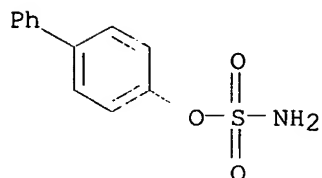
present on the alkyl moiety of A which have not been converted to OS(O)2NR1R2 groups, including 0; z = no. of OS(O)2NR1R2 groups attached to carbons of the alkyl moiety and is .gtoreq. 1; R1 and R2 are selected from H, lower alkyl, carboxy, etc.] are prepd. by three methods: (1) condensation of an alc. with a chlorosulfamate at low temp., (2) reaction of an aryl sulfamate and alc. at higher temps., or (3) by condensation of an aryl alc. with chlorosulfonyl isocyanate at 80-150.degree. in a non-reactive aprotic solvent with subsequent hydrolysis and CO2 elimination. The sulfamates and their pharmaceutically acceptable salts and formulations are useful for reducing intraocular pressure in mammals. Examples include 137 syntheses, 42 precursor preps., and intraocular pressure results for 5 compds. in rabbits.

IT 25999-01-3P 136167-17-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatment of glaucoma)

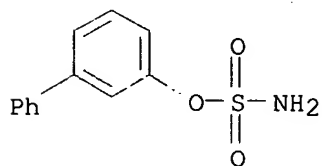
RN 25999-01-3 CAPLUS

CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 136167-17-4 CAPLUS

CN Sulfamic acid, 1,1'-biphenyl-3-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2002 ACS

DUPLICATE 2

ACCESSION NUMBER: 1991:655820 CAPLUS

DOCUMENT NUMBER: 115:255820

TITLE: Preparation of phenyl and phenoxyethyl sulfamates and analogs as anticonvulsants

INVENTOR(S): Lo, Young S.; Walsh, David A.; Uwaydah, Ibrahim M.

PATENT ASSIGNEE(S): Robins, A. H., Co., Inc., USA

SOURCE: U.S., 38 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

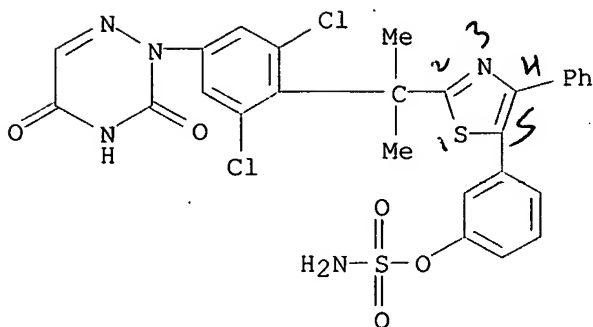
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5025031	A	19910618	US 1989-443146	19891130

OTHER SOURCE(S): MARPAT 115:255820

AB (HO)pA(OSO2NR1R2)z (A = aryl, arylalkyl, aryloxyalkyl; R1, R2 = H, alkyl; p = 0.1; z = 1, 2) were prepd. Thus, PhOH was condensed with ClCH(CO2Et)2 and the product reduced to give PhOCH(CH2OH)2 which was condensed with ClSO2NH2 to give PhOCH(CH2OSO2NH2)2. The latter had ED50 of .ltoreq.25

ester (9CI) (CA INDEX NAME)



L56 ANSWER 18 OF 21 USPATFULL

ACCESSION NUMBER: 2001:153003 USPATFULL

TITLE: Compounds for the treatment of estrogen-dependent illnesses and methods for making and using the same

INVENTOR(S): Li, Pui-Kai, Galloway, OH, United States

Selcer, Kyle W., Murrysville, PA, United States

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6288107	B1	20010911
APPLICATION INFO.:	US 2000-536331		20000324 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-164889, filed on 1 Oct 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Higel, Floyd D.		
ASSISTANT EXAMINER:	Sackey, Ebenezer		
LEGAL REPRESENTATIVE:	Meyers, Diane R.Eckert Seamans Cherin & Mellott, LLC		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	843		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel sulfatase inhibitor/estrogen receptor blocker compounds useful in the treatment of estrogen dependent illnesses are disclosed. The compounds generally comprise a sulfamate moiety and an aromatic, estrogen receptor blocker moiety. Methods for synthesizing these compounds and using them in the therapeutic and/or prophylactic treatment of an estrogen-dependent disease are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

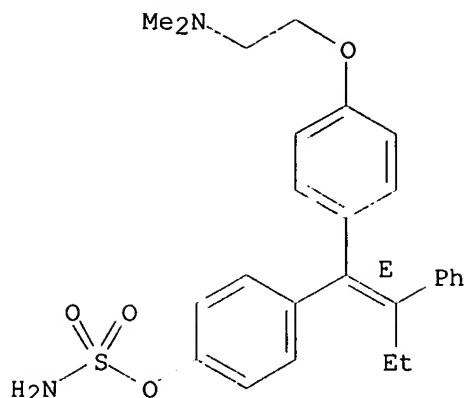
IT 221214-41-1P

(prepn. of aryl sulfamates for treatment of estrogen-dependent illnesses)

RN 221214-41-1 USPATFULL

CN Sulfamic acid, 4-[(1E)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L56 ANSWER 19 OF 21 USPATFULL

ACCESSION NUMBER: 2001:93546 USPATFULL

TITLE: Compounds for the treatment of estrogen-dependent illnesses and methods for making and using the same

INVENTOR(S): Li, Pui-Kai, Library, PA, United States

Selcer, Kyle W., Export, PA, United States

PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6248780	B1	20010619
APPLICATION INFO.:	US 1998-164889		19981001 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Barts, Samuel		
LEGAL REPRESENTATIVE:	Meyers, Diane R.Eckert Seamans Cherin & Mellot, LLC		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	633		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel sulfatase inhibitor/estrogen receptor blocker compounds useful in the treatment of estrogen dependent illnesses are disclosed. The compounds generally comprise a sulfamate moiety and an aromatic, estrogen receptor blocker moiety. Methods for synthesizing these compounds and using them in the therapeutic and/or prophylactic treatment of an estrogen-dependent disease are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

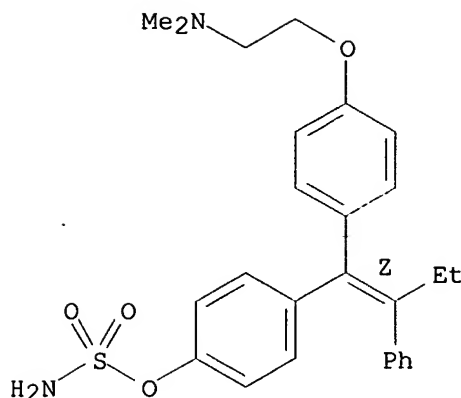
IT 221214-42-2P

(arom. sulfamate deriv. sulfatase inhibitor/estrogen receptor blocker compds. for the treatment of estrogen-dependent illnesses, and methods for prepn. and use)

RN 221214-42-2 USPATFULL

CN Sulfamic acid, 4-[(1Z)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L56 ANSWER 20 OF 21 USPATFULL

ACCESSION NUMBER: 93:109091 USPATFULL

TITLE: Compounds having one or more aminosulfonyloxy radicals useful as pharmaceuticals

INVENTOR(S): Lo, Young S., Hockessin, DE, United States
 Nolan, Joseph C., Midlothian, VA, United States
 Welstead, Jr., William J., Richmond, VA, United States
 Walsh, David A., Augusta, GA, United States
 Shamblee, Dwight A., Richmond, VA, United States
 Uwaydah, Ibrahim M., Richmond, VA, United States

PATENT ASSIGNEE(S): A. H. Robins Company, Incorporated, Richmond, VA,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5273993		19931228
APPLICATION INFO.:	US 1992-965140		19921119 (7)
DISCLAIMER DATE:	20100309		
RELATED APPLN. INFO.:	Division of Ser. No. US 1991-734846, filed on 24 Jul 1991, now patented, Pat. No. US 5194446, issued on 16 Mar 1993 which is a continuation-in-part of Ser. No. US 1989-365212, filed on 12 Jun 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Higel, Floyd D.		
LEGAL REPRESENTATIVE:	Boswell, Jr., R. F.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1,8,9		
LINE COUNT:	4481		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of treating chronic arthritis and osteoporosis which utilize both known and novel compounds which would fall under the general formula:

$$(HO)p--A--[--OS(O).sub.2 NR.sup.1 R.sup.2].sub.z$$

wherein A encompasses a wide range of values including but not limited to aryl, loweralkyl, cycloalkyl, and carbohydrates including sucrose and fructose; p is equal to the number of unreacted hydroxy groups contained on the molecule and may be zero; z is the number of --OS(O).sub.2 NR.sup.1 R.sup.2 groups and is always at least one; R.sup.1 and R.sup.2 are selected from hydrogen, loweralkyl, carboxy and the like; a novel process for preparing the compounds is provided wherein an appropriate sulfamic acid aryl ester is reacted with a hydroxy substituted A radical which may or may not contain thereon protected carboxyl, amino or

hydroxy substituents, in an aprotic solvent containing a tertiary amine base. Pharmaceutical compositions for the treatment of chronic arthritis and osteoporosis are also provided.

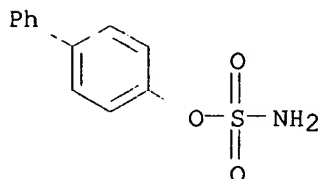
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 25999-01-3P 136167-17-4P

(prepn. of, for treatments of arthritis and osteoporosis)

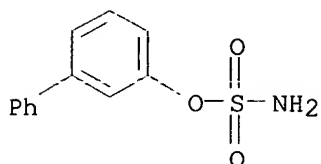
RN 25999-01-3 USPATFULL

CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 136167-17-4 USPATFULL

CN Sulfamic acid, 1,1'-biphenyl-3-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 21 OF 21 USPATFULL

ACCESSION NUMBER: 93:20542 USPATFULL

TITLE: Compounds having one or more aminosulfaonyloxy radicals useful as pharmaceuticals

INVENTOR(S): Lo, Young S., Hockessin, DE, United States
Nolan, Joseph C., Midlothian, VA, United States
Welstead, Jr., William J., Richmond, VA, United States
Walsh, David A., Augusta, GA, United States
Shamblee, Dwight A., Richmond, VA, United States
Uwaydah, Ibrahim M., Richmond, VA, United States
PATENT ASSIGNEE(S): A. H. Robins Company, Incorporated, Richmond, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5194446		19930316
APPLICATION INFO.:	US 1991-734846		19910724 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-365212, filed on 12 Jun 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bond, Robert T.		
ASSISTANT EXAMINER:	Ward, E. C.		
LEGAL REPRESENTATIVE:	Boswell, Jr., R. F.		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
LINE COUNT:	4531		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of treating chronic arthritis and osteoporosis which utilize both known and novel compounds which would fall under the general

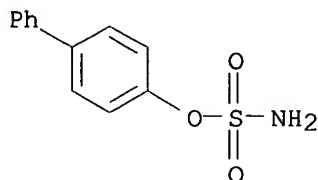
mg/kg i.p. against corneal maximal electroshock-induced convulsions in mice.

IT 25999-01-3P 136167-17-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as anticonvulsant)

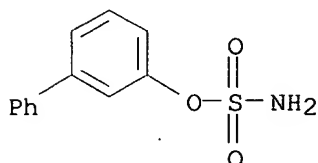
RN 25999-01-3 CAPLUS

CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 136167-17-4 CAPLUS

CN Sulfamic acid, 1,1'-biphenyl-3-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:240724 CAPLUS

DOCUMENT NUMBER: 136:263092

TITLE: Preparation of 3,4-dihydropyrroles as pesticides

INVENTOR(S): Plant, Andrew; Marhold, Albrecht; Grosser, Rolf;
Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

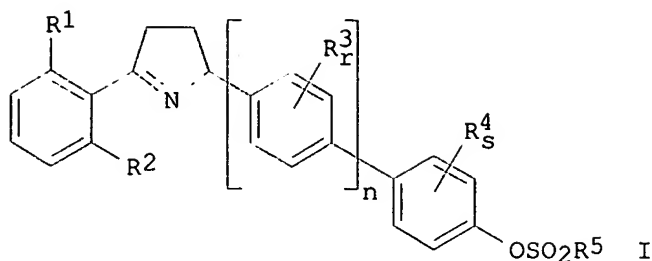
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

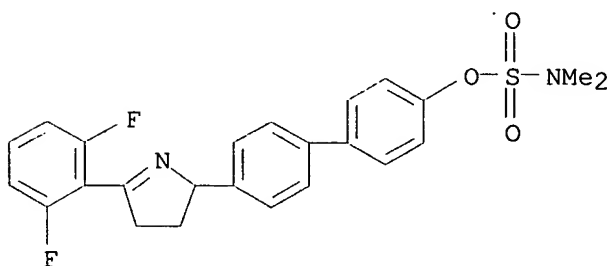
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024644	A1	20020328	WO 2001-EP10430	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10051395	A1	20020411	DE 2000-10051395	20001017
PRIORITY APPLN. INFO.: DE 2000-10047119 A 20000922				
DE 2000-10051395 A 20001017				

OTHER SOURCE(S): MARPAT 136:263092

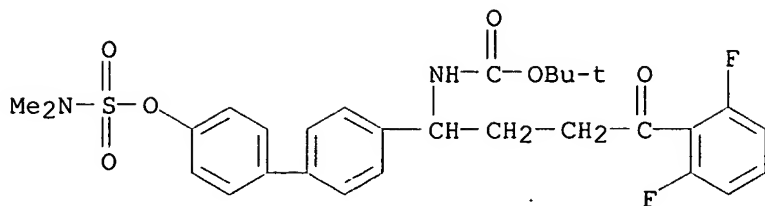
GI



- AB Title compds. [I; n = 0, 1; r, s = 0-2; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (halo)alkyl, (halo)alkoxy; R5 = (halo)alkyl, (substituted) Ph, NR6R7; R6 = (halo)alkyl; R7 = H, (halo)alkyl, R6R7 = (alkoxy)alkylene] were prepd. Thus, 4-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]phenol in PhMe was treated with 45% NaOH and 4-(trifluoromethoxy)benzenesulfonyl chloride, followed by stirring for 12 h at 45.degree., to give 70% 5-(2,6-difluorophenyl)-2-(4-[4-(trifluoromethoxy)phenyl]sulfonyloxyphenyl)-3,4-dihydro-2H-pyrrole. Several I at 100-200 ppm gave 90-95% kill of *Aphis gossypii* on *Gossypium hirsutum* after 6 days.
- IT **405201-75-4P**
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of dihydropyrroles as pesticides)
- RN 405201-75-4 CAPLUS
- CN Sulfamic acid, dimethyl-, 4'-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

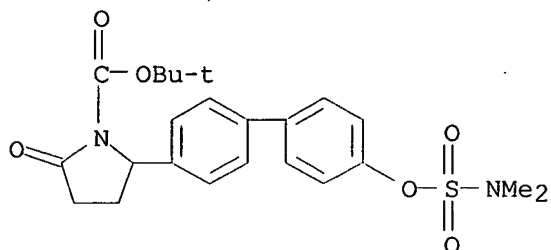


- IT **405201-79-8P 405201-83-4P 405201-84-5P 405201-85-6P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of dihydropyrroles as pesticides)
- RN 405201-79-8 CAPLUS
- CN Carbamic acid, [4-(2,6-difluorophenyl)-1-[4'-[[(dimethylamino)sulfonyl]oxy][1,1'-biphenyl]-4-yl]-4-oxobutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



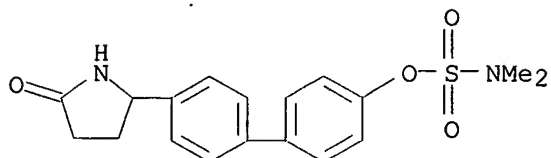
RN 405201-83-4 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[4'-[[[(dimethylamino)sulfonyl]oxy][1,1'-biphenyl]-4-yl]-5-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



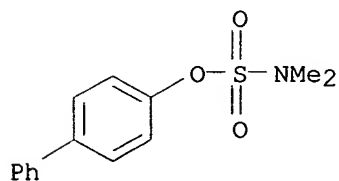
RN 405201-84-5 CAPLUS

CN Sulfamic acid, dimethyl-, 4'-(5-oxo-2-pyrrolidinyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 405201-85-6 CAPLUS

CN Sulfamic acid, dimethyl-, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:227501 CAPLUS

DOCUMENT NUMBER: 132:260691

TITLE: Aromatic sulfamate derivative sulfatase inhibitor/estrogen receptor blocker compounds for the treatment of estrogen-dependent illnesses, and methods for preparation and use

Searched by Barb O'Bryen, STIC 308-4291

INVENTOR(S): Li, Pui-Kai; Selcer, Kyle W.
PATENT ASSIGNEE(S): Duquesne University of the Holy Ghost, USA
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018397	A1	20000406	WO 1999-US22823	19990930
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6248780	B1	20010619	US 1998-164889	19981001
AU 9964081	A1	20000417	AU 1999-64081	19990930
EP 1117395	A1	20010725	EP 1999-951694	19990930
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			

PRIORITY APPLN. INFO.: US 1998-164889 A 19981001
WO 1999-US22823 W 19990930

OTHER SOURCE(S): MARPAT 132:260691

AB Sulfatase inhibitor/estrogen receptor blocker compds. useful in the treatment of estrogen dependent illnesses are disclosed. The compds. generally comprise a sulfamate moiety and an arom., estrogen receptor blocker moiety. Methods for synthesizing these compds. and using them in the therapeutic and/or prophylactic treatment of an estrogen-dependent disease are also disclosed. Prepn. and testing of (Z)-4-hydroxytamoxifen sulfamate is described.

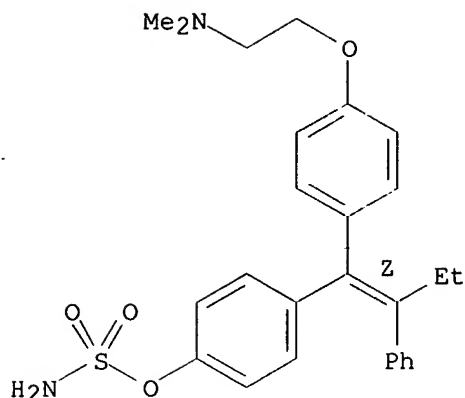
IT **221214-42-2P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(arom. sulfamate deriv. sulfatase inhibitor/estrogen receptor blocker compds. for the treatment of estrogen-dependent illnesses, and methods for prepn. and use)

RN 221214-42-2 CAPLUS

CN Sulfamic acid, 4-[(1Z)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:84826 CAPLUS

DOCUMENT NUMBER: 132:137416

TITLE: Preparation of 6-[[[phosphono(oxo)aryl]alkanoyl]amino]-1,4-thiazepin-5-ones and analogs as protein tyrosine kinase c-Src inhibitors

INVENTOR(S): Benard, Didier; Deprez, Pierre; Lesuisse, Dominique; Mandine, Eliane; Ugolini, Antonio

PATENT ASSIGNEE(S): Hoechst Marion Roussel, Fr.

SOURCE: PCT Int. Appl., 151 pp.

CODEN: PIXXD2

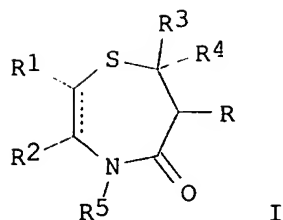
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000005246	A1	20000203	WO 1999-FR1770	19990720
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2781483	A1	20000128	FR 1998-9258	19980721
AU 9949133	A1	20000214	AU 1999-49133	19990720
PRIORITY APPLN. INFO.:			FR 1998-9258	A 19980721
			WO 1999-FR1770	W 19990720
OTHER SOURCE(S):			MARPAT 132:137416	
GI				



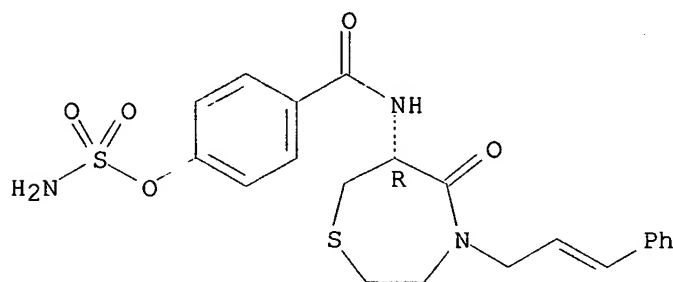
AB Title compds. [I; R = NHZZ1Z2R7; R1,R2 = H, OH, alkyl, alkoxy, etc.; R1R2 = atoms to complete a (hetero)arom. ring; R3,R4 = H, alkyl, aryl(alkyl), etc.; R5 = H, alk(en)yl, aryl(alkyl), etc.; R7 = P(O)(OH)2, OP(O)(OH)2, bis(alkoxy)phosphoryl(oxy), CH2CO2H, SO2NH2, etc.; Z = CO, SO2, alk(en)ylene, etc.; Z1 = CHR6(CH2)1-4, CR6:CHCH2, CHR6, etc.; R6 = H, (acyl)amino, tetrazolyl, etc.; Z2 = arylene; dashed line = optional addnl. bond] were prepd. Thus, (S)-HSCH2CH(NH2)CO2Me was cyclocondensed with CLCH2CH2NH2 and the product amidated by (S)-HO2CCH(NHBoc)CH2C6H4[OP(O)(OCH2Ph)2]-4 to give, in 2 addnl. steps, [S-[R*(6S*)]]-I [R = NHCOCH(NHBoc)CH2C6H4[OP(O)(OCH2Ph)2]-4, R1-R4 = H, R5 = 3-cyclohexylpropyl, dashed line = null]. Data for biol. activity of I were given.

IT **256655-91-1P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 6-[[[phosphono(oxy)]aryl]alkanoyl]amino]-1,4-thiazepin-5-ones and analogs as protein tyrosine kinase c-Src inhibitors)

RN 256655-91-1 CAPLUS

CN Sulfamic acid, 4-[[[(6R)-hexahydro-5-oxo-4-(3-phenyl-2-propenyl)-1,4-thiazepin-6-yl]amino]carbonyl]phenyl ester- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:190770 CAPLUS

DOCUMENT NUMBER: 132:222555

TITLE: Preparation of interleukin-5 inhibiting 6-azauracil derivatives

INVENTOR(S): Freyne, Eddy Jean Edgard; Lacrampe, Jean Fernand Armand; Deroose, Frederik Dirk; Venet, Marc Gaston

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW

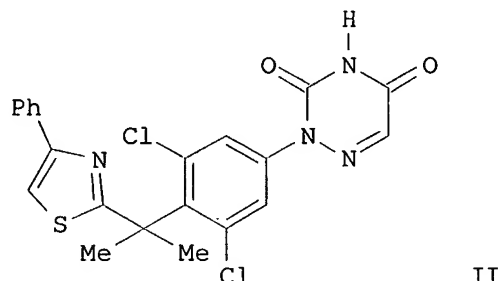
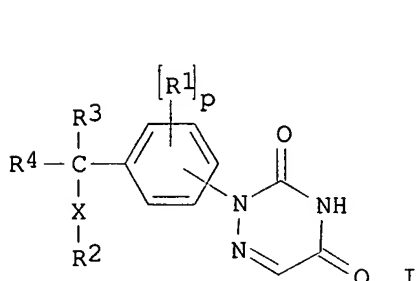
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 987265	A1	20000322	EP 1998-203148	19980918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
WO 2000017195	A1	20000330	WO 1999-EP6776	19990914
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9960825	A1	20000410	AU 1999-60825	19990914
EP 1114046	A1	20010711	EP 1999-947336	19990914
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002010177	A1	20020124	US 2001-812731	20010319
PRIORITY APPLN. INFO.:				
			EP 1998-203148	A 19980918
			WO 1999-EP6776	W 19990914
OTHER SOURCE(S): MARPAT 132:222555				
GI				



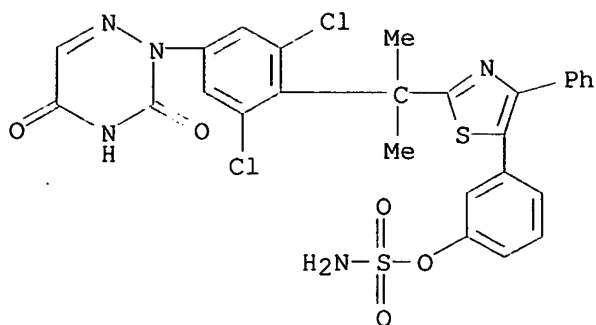
AB The title compds. [I; p = 0-4; X = O, S, NR5, a direct bond; Y = O, S, NR5, SO2; R1 = alkyl, halo, polyhaloalkyl, etc.; R2 = Het1, cycloalkyl, alkyl, and if X = O, S, NR5, then R2 may also represent aminocarbonyl, aminothiocarbonyl, alkylcarbonyl, etc.; R3, R4 = H, alkyl, cycloalkyl; R3R4 = alkanediyl; R5 = H, alkyl; Het1 = (un)substituted heterocycle], useful for treating eosinophil-dependent inflammatory diseases, and marking a receptor, were prep'd. and formulated. E.g., a multi-step synthesis of 1,2,4-triazine-3,5(2H,4H)-dione II which showed 90.5% inhibition of IL-5 prodn., was given.

IT 261512-01-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of interleukin-5 inhibiting 6-azauracil derivs.)

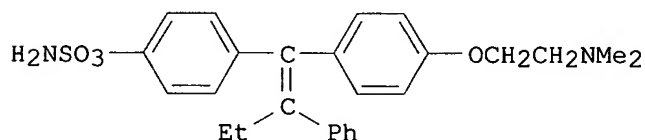
RN 261512-01-0 CAPLUS

CN Sulfamic acid, 3-[2-[1-[2,6-dichloro-4-(4,5-dihydro-3,5-dioxo-1,2,4-triazin-2(3H)-yl)phenyl]-1-methylethyl]-4-phenyl-5-thiazolyl]phenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:118506 CAPLUS
 DOCUMENT NUMBER: 130:237337
 TITLE: Synthesis and sulfatase inhibitory activities of (E)- and (Z)-4-hydroxytamoxifen sulfamates
 AUTHOR(S): Chu, Guo-Hua; Peters, Amy; Selcer, Kyle W.; Li, Pui-Kai
 CORPORATE SOURCE: Department of Medicinal Chemistry and Pharmaceuticals, Mylan School of Pharmacy, Duquesne University, Pittsburgh, PA, 15282, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1999), 9(2), 141-144
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I

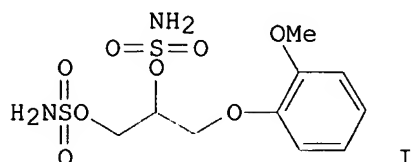
AB We report the development of (E)- (I) and (Z)-4-hydroxytamoxifen sulfamates as estrone sulfatase inhibitors, potential therapeutic agents for the treatment of breast cancer. Both compds. competitively inhibit estrone sulfatase isolated from rat liver with an apparent K_i of 35.9 μM for I and an apparent K_i of $>500 \mu\text{M}$ for the Z isomer.
 IT 221214-41-1P 221214-42-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and sulfatase inhibitory activity of)
 RN 221214-41-1 CAPLUS
 CN Sulfamic acid, 4-[(1E)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

JP 03047162	A2	19910228	JP 1990-152509	19900611
AU 9057000	A1	19901213	AU 1990-57000	19900612
AU 645975	B2	19940203		
US 5194446	A	19930316	US 1991-734846	19910724
US 5273993	A	19931228	US 1992-965140	19921119
PRIORITY APPLN. INFO.:			US 1989-365212	19890612
			US 1991-734846	19910724

OTHER SOURCE(S): MARPAT 116:20788

GI



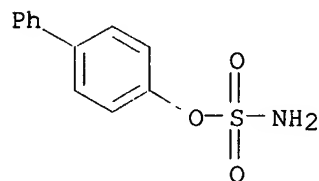
AB (HO)pA(OSO₂NR₁R₂)_z (A = alkyl, aryl, cycloalkyl, arylalkyl, thienyl, pyridyl, furyl, thiazolyl, pyrrolyl, benzothiazolyl, thiadiazolyl, carbohydrate residue, benzodioxanyl, indenyl, benzofuryl indolyl alkyl, etc.; p .gtoreq. 0; Z > 0; R₁ = H, alkyl; R₂ = H, alkyl, CO₂H, alkoxy carbonyl, CO₂M; M = pharmaceutically acceptable cation), were prep'd. Thus, ClSO₂NCO in MeCN was treated with H₂O to give a ClSO₂NH₂ soln.; the latter was treated with HOCH₂CH(OH)CH₂OC₆H₄OMe-4 and pyridine in MeCN at -3 to 15.degree. followed by 2 h stirring to give 74.5% title compd. I. I at 10⁻⁶M gave 100% inhibition of chick embryo bone resorption induced by 10⁻⁹M parathyroid hormone. Pharmaceutical formulations comprising the title compds. are given.

IT 25999-01-3P 136167-17-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatments of arthritis and osteoporosis)

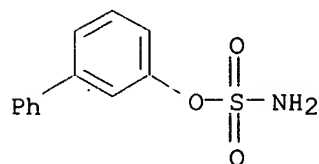
RN 25999-01-3 CAPLUS

CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 136167-17-4 CAPLUS

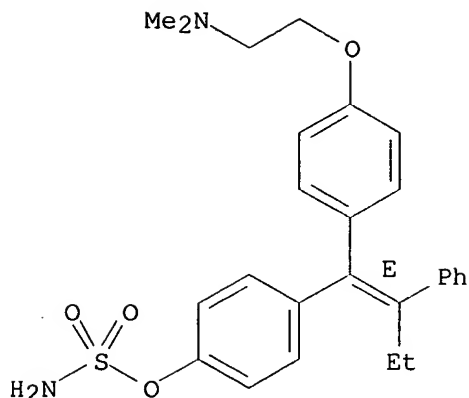
CN Sulfamic acid, 1,1'-biphenyl-3-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:453763 CAPLUS

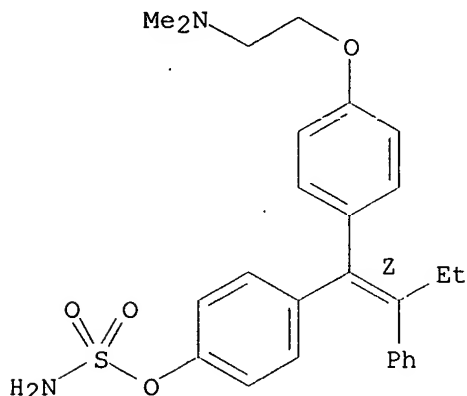
DOCUMENT NUMBER: 103:53763



RN 221214-42-2 CAPLUS

CN Sulfamic acid, 4-[(1Z)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L56 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:20788 CAPLUS

DOCUMENT NUMBER: 116:20788

TITLE: Preparation of sulfamate esters for use against arthritis and osteoporosis

INVENTQR(S): Lo, Young Sek; Nolan, Joseph Clarence; Walsh, David
 Allan; Welstead, William John, Jr.

PATENT ASSIGNEE(S): Robins, A. H., Co., Inc., USA

SOURCE: Eur. Pat. Appl., 88 pp.

CODEN: EPXXDW

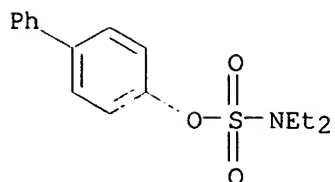
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

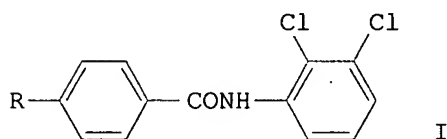
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 403185	A2	19901219	EP 1990-306289	19900608
EP 403185	A3	19921216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2018700	AA	19901212	CA 1990-2018700	19900611



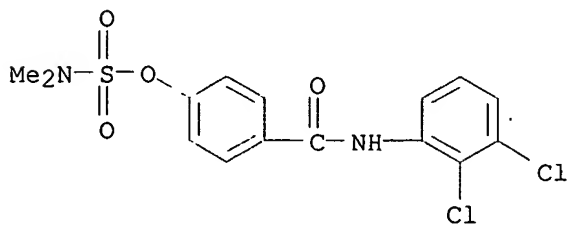
L56 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:586905 CAPLUS
 DOCUMENT NUMBER: 95:186905
 TITLE: Herbicidal benzamides
 PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56083467	A2	19810708	JP 1979-159270	19791210
JP 62023748	B4	19870525		

GI



AB Herbicidal benzamides I (R = halo- or alkyl-substituted alkylsulfonyloxy, alkylsulfamoyloxy) were prepd. Thus, stirring the K salt of I (R = OH) with MeSO2Cl in acetone 6 h gave 86.3% I (R = MeSO3).
 IT **79603-69-3P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and herbicidal activity of)
 RN 79603-69-3 CAPLUS
 CN Sulfamic acid, dimethyl-, 4-[[[(2,3-dichlorophenyl)amino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2002 ACS

TITLE: Biphasic systems. 7. Synthesis of simple and N-substituted sulfamates under conditions of liquid-liquid phase transfer

AUTHOR(S): Hedayatullah, Mir; Hugueny, Jean Claude

CORPORATE SOURCE: Inst. Topol. Dyn. Syst., Univ. Paris VII, Paris, 75005, Fr.

SOURCE: Phosphorus Sulfur (1984), 20(3), 371-5
CODEN: PREEDF; ISSN: 0308-664X

DOCUMENT TYPE: Journal

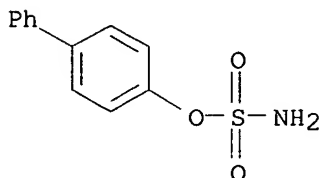
LANGUAGE: French

AB Sulfamates p-R1C6H4OSO2NR2 (R2N = H2N, piperidino, morpholino, 1-pyrrolidinyl; R1 = H, Me, Cl, Ph) were prepd. by redn. of azides p-R1C6H4SO2N3 or by esterification of phenols p-R1C6H4OH with R2NSO2Cl under phase-transfer catalysis conditions.

IT 25999-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 25999-01-3 CAPLUS

CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1982:217218 CAPLUS

DOCUMENT NUMBER: 96:217218

TITLE: Versatile synthesis of sulfamate esters by phase-transfer methods

AUTHOR(S): Spillane, William J.; Taheny, Anne P.; Kearns, M. Mary

CORPORATE SOURCE: Chem. Dep., Univ. Coll. Galway, Galway, Ire.

SOURCE: J. Chem. Soc., Perkin Trans. 1 (1982), (3), 677-9
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

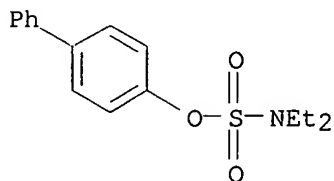
AB Sulfamate esters, R2NSO3R1 (R = Me, Et), RNHSO3R1 (R = cyclohexyl), and H2NSO3R1 (R1 = alkyl, aryl) were prepd. by condensation of the appropriate sulfamoyl chloride with alcs. and phenols under mild phase-transfer conditions. E.g., reaction of Me2NSO2Cl with MeOH in C6H6 contg. PhCH2N+Et3Cl- and aq. NaOH at 50.degree. for 2 h gave 90% Me2NSO3Me. Me2NSO3R (R = Me, Et, Pr, CMe3) rearranged to the corresponding betaines Me2N+RSO3- in 95-98% yield at 130.degree..

IT 72119-30-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, by condensation of sulfamoyl chloride with phenol)

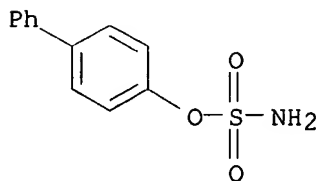
RN 72119-30-3 CAPLUS

CN Sulfamic acid, diethyl-, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

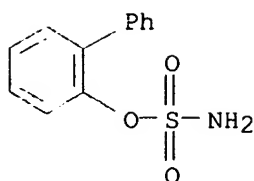
ACCESSION NUMBER: 1980:6189 CAPLUS
DOCUMENT NUMBER: 92:6189
TITLE: Study of the reactivity of aryl fluorosulfates with respect to secondary aliphatic amines
AUTHOR(S): Hedayatullah, Mir; Guy, Alain
CORPORATE SOURCE: Lab. Chim. Org., Conservatoire Natl. Arts Metiers, Paris, 75141/03, Fr.
SOURCE: Phosphorus Sulfur (1979), 7(1), 95-100
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Aryl sulfamates are obtained from aryl fluorosulfates and secondary aliph. amines. The use of the HSAB concept (Hard and Soft Acids and Bases) is used to explain the difference of the reactivity between aryl fluorosulfates and aryl chlorosulfates.
IT 72119-30-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 72119-30-3 CAPLUS
CN Sulfamic acid, diethyl-, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



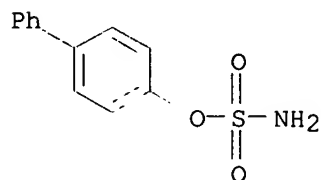
L56 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:442661 CAPLUS
DOCUMENT NUMBER: 89:42661
TITLE: A convenient synthesis of aryl sulfamates
AUTHOR(S): Hedayatullah, Mir; Guy, Alain
CORPORATE SOURCE: Lab. Chim. Org., Conservatoire Natl. Arts Metiers, Paris, Fr.
SOURCE: Synthesis (1978), (5), 357
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
AB RnC₆H₅-nO₃SNH₂ (Rn = H, 2-, 4-Me, 2,6-Me₂, 2-, 4-Ph, 4-Cl) were prepd. in 50-75% yield by NaBH₄ redn. of RnC₆H₅-nO₃SN₃.
IT 25999-01-3P 67073-77-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 25999-01-3 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



RN 67073-77-2 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-2-yl ester (9CI) (CA INDEX NAME)

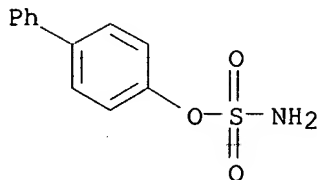


L56 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1975:547252 CAPLUS
DOCUMENT NUMBER: 83:147252
TITLE: Synthesis and reduction of aryl azidosulfates. VI
AUTHOR(S): Hedayatullah, Mir; Guy, Alain
CORPORATE SOURCE: Lab. Chim. Org. Appl., Conservatoire Natl. Arts
Metiers, Paris, Fr.
SOURCE: Tetrahedron Lett. (1975), (29), 2455-8
CODEN: TELEAY
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Reaction of p-RC6H4OSO2Cl (R = H, Me, Cl, Ph) with NaN3 in MeCN gave 90-8% p-RC6H4OSO2N3 (I) which in MeOH with powd. Cu gave 47-86% p-RC6H4OSO2NH2. LiAlH4 redn. of I gave the corresponding phenols by cleavage of the O-S bond.
IT 25999-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25999-01-3 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1972:539511 CAPLUS
DOCUMENT NUMBER: 77:139511
TITLE: Preparation and reactions of aryloxysulfonyl isocyanates
AUTHOR(S): Lohaus, Gerhard
CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M., Ger.
SOURCE: Chem. Ber. (1972), 105(9), 2791-9
CODEN: CHBEAM
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Re-action of phenols ROH (e.g. R = Ph, p-MeC6H4, m-ClC6H4, 2,4,6-Cl3C6H2, p-NCC6H4) with ClSO2NCO gave 40-79% ROSO2NCO (I). Hydrolysis of I yielded nearly quant. ROSO2NH2 (II). I are highly active compds. and the reactivity corresponded to the acidity of the starting phenols. II was useful for the transfer of SO2NH2 groups, e.g. to amines.
IT 25999-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 25999-01-3 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1970:55051 CAPLUS
DOCUMENT NUMBER: 72:55051
TITLE: Sulfamic acid aryl esters
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G
SOURCE: Fr., 3 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

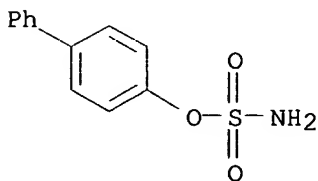
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1554976		19690124		

PRIORITY APPLN. INFO.: DE 19670128

AB Isocyanates Ar(OSO₂NCO)_n (where Ar = aryl, n = 1 or 2) (Ger. 1,230,017) react with H₂O to yield aryl sulfamate N-carboxylic acids which lose CO₂ spontaneously to form Ar(OSO₂NH₂)_n (I). Thus, 15 g H₂O is added dropwise to 64 g 4-NCC₆H₄OSO₂NCO in 500 ml CCl₄ to ppt. 55 g 4-NCC₆H₄-OSO₂NH₂, m. 155.degree.. Other I (n = 1) prepd. are the following (Ar and m.p. given): 4-ClC₆H₄, 105.degree.; 3-ClC₆H₄, 80.degree.; Ph, 86.degree.; 4-MeC₆H₄, 80.degree.; 3-MeC₆H₄, 88.degree.; 2,6-Me₂C₆H₃, 110.degree.; 2,3-Me₂-C₆H₃, 78.degree.; 2,5-Me₂C₆H₃, 104.degree.; 2,4,5-Cl₃C₆H₂ (II), 158.degree.; 2,4,6-Cl₃C₆H₂, 144.degree.; 2,4,6-Br₃C₆H₂, 164.degree.; C₆Cl₅, 215.degree.; 4-MeO-C₆H₄, 165.degree.; 4-PhN₂C₆H₄, 160.degree.; the sulfonate of 3-hydroxydibenzofuran, 156.degree.; and hydroquinone bis(sulfamate), 200.degree.. The compds. are useful for transferring the sulfonamide group. Thus, by shaking 1.35 g II with 0.9 g morpholine in 5 ml CH₂Cl₂, the ester dissolves to yield 0.71 g morpholine-N-sulfonamide, m. 160.degree..

IT **25999-01-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 25999-01-3 CAPLUS
CN Sulfamic acid, [1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



L56 ANSWER 17 OF 21 USPATFULL

ACCESSION NUMBER: 2002:17297 USPATFULL
TITLE: IL-5 inhibiting 6-azauracil derivatives
INVENTOR(S): Freyne, Eddy Jean Edgard, Rumst, BELGIUM
Lacrampe, Jean Fernand Armand, Le Mesnil-Esnard, FRANCE
Deroose, Frederik Dirk, Drongen, BELGIUM
Venet, Marc Gaston, Le Mesnil-Esnard, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002010177	A1	20020124
APPLICATION INFO.:	US 2001-812731	A1	20010319 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1998-203148	19980918
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AUDLEY A. CIAMPORCERO JR., JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2441	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is concerned with the compounds of formula
##STR1##

the N-oxides, the pharmaceutically acceptable addition salts and the stereochemically isomeric forms thereof, wherein p is 0 to 4; X is O, S, NR.sup.5 or a direct bond; Y is O, S, NR.sup.5 or S(O).sub.2; R.sub.1 independently is C.sub.1-6alkyl, halo, polyhaloC.sub.1-6alkyl, hydroxy, mercapto, C.sub.1-6alkyloxy, C.sub.1-6alkylthio, C.sub.1-6alkylcarbonyloxy, aryl, cyano, nitro, Het.sup.3, R.sup.6, NR.sup.7R.sup.8 or substituted C.sub.1-4alkyl; R.sub.2 is Het.sup.1, C.sub.3-7cycloalkyl or optionally substituted C.sub.1-6alkyl and if X is O, S or NR.sub.5, then R.sub.2 may also represent aminocarbonyl, aminothiocarbonyl, C.sub.1-4alkylcarbonyl, C.sub.1-4alkylthiocarbonyl, arylcarbonyl, arylthiocarbonyl, Het.sup.1carbonyl or Het.sup.1thiocarbonyl; R.sub.3 and R.sub.4 independently are hydrogen, C.sub.1-6alkyl or C.sub.3-7cycloalkyl; R.sub.3 and R.sub.4 form a C.sub.2-6alkanediyl; R.sub.5 is hydrogen or C.sub.1-4alkyl; R.sub.6 is a sulfonyl or sulfinyl derivative; R.sub.7 and R.sub.8 are independently hydrogen, optionally substituted C.sub.1-4alkyl, aryl, a carbonyl containing moiety, C.sub.3-7cycloalkyl, --Y--C.sub.1-4alkanediyl-C(=O)--O--R.sub.14, Het.sup.3, Het.sup.4 and R.sub.6; R.sub.11 is hydroxy, mercapto, cyano, nitro, halo, trihalomethyl, C.sub.1-4alkyloxy, formyl, trihaloC.sub.1-4alkylsulfonyloxy, R.sub.6, RNR.sup.7R.sup.8, C(=O)NR.sup.7R.sup.8, C.sub.1-4alkanediyl-C(=O)--O--R.sub.14, --C(=O)--O--R.sub.14, --Y--C.sub.1-4alkanediyl-C(=O)--O--R.sub.14, aryl, aryloxy, arylcarbonyl, C.sub.3-7cycloalkyl, C.sub.3-7cycloalkyloxy, phthalimide-2-yl, Het.sup.3 and C(=O)Het.sup.3; R.sub.14 is hydrogen, C.sub.1-4alkyl, C.sub.3-7cycloalkyl, aminocarbonylmethylene or mono-or di(C.sub.1-4alkyl)aminocarbonylmethylene; aryl is optionally substituted phenyl; Het.sup.1, Het.sup.2, Het.sup.3 and Het.sup.4 are optionally substituted heterocycles; to processes for their preparation and compositions comprising them. It further relates to their use as a medicine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 261512-01-0P

(prepn. of interleukin-5 inhibiting 6-azauracil derivs.)

RN 261512-01-0 USPATFULL

CN Sulfamic acid, 3-[2-[1-[2,6-dichloro-4-(4,5-dihydro-3,5-dioxo-1,2,4-triazin-2(3H)-yl)phenyl]-1-methylethyl]-4-phenyl-5-thiazolyl]phenyl